



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 32] नई दिल्ली, शनिवार, अगस्त 8, 1987 (श्रावण 17, 1909)
No. 32] NEW DELHI, SATURDAY, AUGUST 8, 1987 (SRAVANA 17, 1909)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III-खण्ड 2 [PART III-SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS
Calcutta, the 8th August 1987

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1-187 GI/87

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CORRIGENDUM

(i)

1. In the Gazette of India, Part III, Section 2 dated 14th March, 1987, under the heading 'Complete Specifications Accepted on page 184, Column 1:

(i) in respect of Patent Specification No. 159042

For *Application for Patent No. 194/Del/83 filed on 25th March 1983. Divisional application No. 195/Del/83 filed on 25th March 1983."

Read "Application for Patent No. 194/Del/1983 filed on 25th March, 1983."

(ii) in respect of Patent Specification No. 159043. For "Application for Patent No. 195/Del/1983 filed on 25th March, 1983. Divisional Application No. 194/Del/83 filed on 25th March, 1983".

Read "Application for Patent No. 195/Del/83 filed on 25th March, 1983".

2. In the Gazette of India, Part III, Section 2 dated 14th March 1987 under the heading 'Alteration of Date' on page 180 Column 2:

DELETE

"159042 (194/Del/83)" Ante dated to 25th March, 1983.

"159043 (195/Del/83)" Ante dated to 25th March, 1983.

(2)

In the Gazette of India, Part III, Section 2, dated 28-3-1987 under the heading "Applications for Patents filed in the Patent Office Branch at Todi Estate, 3rd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400 013" on page No. 210,

- (i) in respect of Patent Applications No. 40/Bom/87 in the name of applicants for "DESPAK PLC" read "BESPAK PLC".

(3)

In the Gazette of India, Part III, Section 2, dated 30th May, 1987 under the heading "Applications for Patents filed in the Patent Office Branch at Todi Estate, 3rd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400 013" on page No. 437 and 438.

- (1) In respect of Patent Application No. 84/Bom/87 in the name of the applicants for "V. R. PAREKH & OTHERS" read "V. V. PAREKH & OTHERS".
- (2) In respect of Patent Application No. 95/Bom/87 in the name of the applicant for "ASHA HANDICRAFTS" read "ASHA HANDICRAFTS".
- (3) In respect of Patent Application No. 96/Bom/87 in the title of the invention for "INVENTION IN OR RELATING TO MANUFACTURING TWO JAWS DRILL CHOCKS" read "TWO JAWS DRILL CHOCKS".
- (4) In respect of Patent Application No. 98/Bom/87 in the name of the applicants for "D. V. PANDSE & S. G. PENDSE" read as "G. V. PENDSE & S. G. PENDSE".
- (5) In respect of Patent Application No. 99/Bom/87 in the name of applicant for "R. K. KATL" read as "R. K. KATTI".

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA TAGADISH BOSE ROAD, CALCUTTA-700 020

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 30th June, 1987

504/Cal/87. Adaptive Instruments Corporation. Method and apparatus for improving electrochemical processes.

505/Cal/87. Edlon Products, Inc. Polymer-metal bonded composite and method of producing same.

506/Cal/87. Dieter Schurmann and Bernd Guderelt. Dynamo for/on bicycles.

The 1st July, 1987

507/Cal/87. Sonex Research, Inc. Internal combustion engine using dynamic resonating air chamber.

508/Cal/87. Pulak Chandra Ray. Flying Saucer.

509/Cal/87. Beloit Corporation. Web forming apparatus.

10/Cal/87. Du Pont Canada Inc. Gas barrier structures. (Convention dated 17th July, 1986) U.K.

511/Cal/87. Suomen Calcusan Oy. Mouthwash solution.

The 2nd July, 1987

512/Cal/87. Klein, Schanzlin & Becker Aktiengesellschaft. A bend chamber for chamber for turbo engines with radial flow.

513/Cal/87. Metallgesellschaft Aktiengesellschaft. Dust-collecting electrostatic precipitator.

The 3rd July, 1987

514/Cal/87. Injectall Limited. Improvements in nobbles for injecting substances into liquids. (Convention dated 5th July, 1986 and 10th October, 1986) both are U.K.

515/Cal/87. Toyama Chemical Co. Ltd. A novel intermediate for cephalosporins. [Divisional dated 29th September, 1984].

The 6th July, 1987

516/Cal/87. Colt Industries Inc. Electromagnet, valve assembly and fuel metering apparatus.

517/Cal/87. Metallgesellschaft Aktiengesellschaft. Process of starting up for the gasification of solid fuels in a fixed bed.

518/Cal/87. Metallgesellschaft Aktiengesellschaft. Apparatus for collecting dust from gas.

519/Cal/87. Alf Zitzmann GmbH & Co. Device for cooling beverage containers, particularly bottles.

The 7th July, 1987

20/Cal/87. Asea Stal Ab. Method of reducing the content of nitrogen oxides in multiple bed combustion boilers.

521/Cal/87. Mitsui Toatsu Chemicals, Incorporated. Manufacturing process of chlorine.

522/Cal/87. Fantasy Toys, Inc. Rotatable assemblies for interconnecting building blocks.

The 8th July, 1987

523/Cal/87. Hhyssen Stahl Aktiengesellschaft. Refractory submerged pouring nozzle.

524/Cal/87. Metallgesellschaft Aktiengesellschaft. Corona discharge electrodes.

525/Cal/87. Sri Satvaidutta. Message display system (Alphanumeric advertising system)

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-110 005

The 8th June, 1987

487/Del/87. Pignio & C.S.P.A.. "Motor-driven two-wheeler, in particular a motor-scooter".

488/Del/87. Ronaid D. Sekura, "Novel method of preparing toxoid".

489/Del/87. Nearctic Research Centre (Australia) Limited, "Cavity".

490/Del/87. Salplex Limited, "Information handling and control systems, manually operable electrical switches for use in such systems, and methods of testing such switches in such systems". (Convention date 11th June, 1986, U.K.).

491/Del/87. Thumswamy Joseph David, "A crop gathering assembly".

492/Del/87. Rajasthan Telephone Industries Limited, "An improved device for barring subscriber trunk dialling".

The 9th June, 1987

493/Del/87. Paul Wurth S.A., "Device for closing a top central opening of a vessel, and its application to a storage hopper in a shaft furnace charging installation".

494/Del/87. Societe D'Applications Generales D'Electricite ET DE Mechanique SAGEM, "A method of controlling a writing system and a system for writing in devanagari script".

495/Del/87. Exxon Chemical Patents, Inc., "High pressure high temperature polymerization of ethylene".

496/Del/87. Dnepropetrovsky Gosudarstvennyy Universitet Imeni 308-Letia Vossoedinenia Ukrain S Rossiei, "Process for Zinc plating of articles".

497/Del/87. Shell Oil Company, "Process for preparing polymerization catalyst component".

498/Del/87. BP Chemicals Limited, "Fluidised bed discharge device". (Convention date 30th September, 1986, U.K.).

499/Del/87. Compagnie Francaise D'Etudes ET DE Construction TECHNIP, "Improvements in or relating to method of and system for processing vegetable materials to produce in particular furfural".

The 10th June, 1987

500/Del/87. Hari Dyal Gupta, "An improved portable swimming pool".

501/Del/87. Continuous Concrete Castings Pty. Limited, "Improved trenching apparatus and methods of forming inground retaining walls". (Convention date 13th June, 1986, Australia).

502/Del/87. Imperial Chemical Industries PLC., "Connector". (Convention date 13th June, 1986, U.K.).

503/Del/87. Commonwealth Scientific and Industrial Research Organization, "Production of high purity zirconia from zirconiferous materials". (Convention date 18th June, 1986, and 2nd July, 1986, Australia).

The 11th June, 1987

504/Del/87. The Goodyear Tire & Rubber Company, "Rubber vulcanization agents and methods for their preparation".

505/Del/87. Advanced energy Dynamics, Inc., "Separating constituents of a mixture of particles".

506/Del/87. The Lubrizol Corporation, "Phosphorus-, Sulfur- and Boron-containing compositions, and lubricant and functional fluid compositions containing same".

The 12th June, 1987

507/Del/87. Octuator AB., "Apparatus for cleaning filter for liquids".

508/Del/87. Krupp Polysius AG., "Sifter".

509/Del/87. Paul Badileo "Composite rotary loop taker for lockstitch sewing machine".

The 15th June, 1987

510/Del/87. GEC Avionics Limited, "Parallel redundant actuator systems". (Convention date 20th June, 1986, U.K.).

511/Del/87. Vsesojuzny Nauchno-Issledovatel'sky I Proektny Institut Aluminievoy, Magnievoy I Elektrolyz Promyshlennosti, "Method for processing bauxite into alumina".

512/Del/87. Council of Scientific and Industrial Research, "A process for the continuous solvent extraction and electrowinning of copper and zinc from ammoniacal leach liquor obtained from pressure leaching of multi metal sulphide ores/concentrates".

The 16th June, 1987

513/Del/87. Contempo Products, P. Heffli, "Three-Way Connector for liquid exchange".

514/Del/87. The Plessey Company PLC, "Photoreactive Lenses". (Convention date 17th June, 1986, U.K.).

515/Del/87. BP Chemicals Limited, "Low toxicity oil composition and use thereof in drilling fluids". (Convention date 25th June, 1986, U.K.).

516/Del/87. Kanthal Limited, "Heating devices". (Convention date 20th June, 1986, U.K.).

517/Del/87. Dresser Industries, Inc., "Improved safety relief valve".

The 17th June, 1987

518/Del/87. The B.F. Goodrich Company, "Polycarboxylic acids with small amount of residual monomer".

519/Del/87. S.A. Doublet, "Method of printing a material".

520/Del/87. Ashcombe Products Co., "Gang drill and method for clearing patterns of holes in tubular members".

521/Del/87. Parker Pen (Benelux) B.V., "Writing instrument".

522/Del/87. Pfizer Inc., "A process for the preparation of a biologically-active tetracyclic spiro hydantoin derivative. [Divisional date 15th July, 1985].

The 18th June, 1987

523/Del/87. Imperial Chemical Industries PLC., "Pressure control". (Convention date 2nd July, 1986, U.K.).

524/Del/87. The Goodyear Tire & Rubber Company, "Improved process for the preparation of N, N'-Tetrahydromorpholine".

525/Del/87. The Goodyear Tire & Rubber Company, "Tri-block polymer and synthesis technique".

526/Del/87. The Goodyear Tire & Rubber Company, "Star polymer".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST) BOMBAY-13

The 1st June, 1987

169/Bom/87. Smt. Manju Agrawal & Mohan Lal, "A Mini Nicotine scatter for cigarette or cigar or bidi".

170/Bom/87. M/s. Krishna Engineering Works, Western Gharghanti.

71/Bom/87. John T. Hardaker (India) Private Limited, A Jacquards.

The 2nd June, 1987

172/Bom/87. Paramahansa Tewari. Space power perpetual machine.

173/Bom/87. Primatex Machinery Private Limited. A clip-body for a stenter.

174/Bom/87. Honeywell Bull Inc. Transformer tap changer.

The 3rd June, 1987

175/Bom/87. The Automotive Research Association of India. An improved combustion chamber for 2-stroke and 4 stroke spark ignition engine.

The 4th June, 1987

176/Bom/87. M. D. Agiawal & Smt. Manju Agrawal. Memory Playing Cards.

177/Bom/87. Bhaskar Premi Mitra. A Device using Solar Energy named. "Surya Baan."

The 5th June, 1987

178/Bom/87. N. B. Kale. Preservation of milk, parteurized milk, whey & fermented at milk products at room temp. low temp. using HRP, H_{2O_2} & activators of LP.

179/Bom/87. N.B. Kale and M. V. Deshpande. Extracts of Biological origin for treating industrial waste rich in cyanide.

180/Bom/87. P. B. Mhatre. Ergotion.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 8th June, 1987

421/Mas/87. Motorola Inc., Multiple Resonator Component-mountable filter.

422/Mas/87. Owens-Illinois Television Products Inc. Method of and apparatus for forming cathode ray tube faceplate panels.

423/Mas/87. Owens-Illinois Television Products Inc. Method and apparatus for pressing glass cathode ray tube faceplates.

424/Mas/87. Agrichema Material flusstechnik GmbH. An air blast device for dissolving material accumulations in storage silos for bulk goods.

425/Mas/87. Sharp Kabushiki Kaisha. Image formation apparatus.

The 9th June, 1987

426/Mas/87. Shell Internationale Research Maatschappij B.V. Novel downflow fluidized catalytic cracking reactor.

427/Mas/87. Packaging Automation Machinery Co. Ltd. Fused plastic bag closure and apparatus for making same. (July 22, 1986; Canada).

428/Mas/87. Charbonnages De France. Mining or underground quarrying method and installation for implementing same.

429/Mas/87. Davy McKee (London) Limited. Process. (July 1, 1986; Great Britain).

The 10th June, 1987

430/Mas/87. Air Industrie Environment. Control device for the pneumatic cleaning of filters.

431/Mas/87. Institut Francais Du Pétrole. Copolymer Compositions particularly useful as additives for hydrocarbon oils.

432/Mas/87. Cell Technology, Inc. Biologic Response Modifier.

433/Mas/87. Detia Freyberg GmbH. Weldable sheet material and fumigant applicator.

The 11th June 1987

434/Mas/87 Berol Kemi AB. Process for preparation of a hydrogenation and/or dehydrogenation catalyst.

The 12th June 1987

435/Mas/87 Dr.-Ing. Reinhard von Nordenskjöld. A process for the biological purification of sewage and a device for carrying out such a process.

436/Mas/87 Dalmine S. p. A. Sleeveless tubes (Tubing) for hydrocarbon pumping pipes.

437/Mas/87 Monsanto Company. Film composition

438/Mas/87. Snampromgetti S.p.A. Improved joint for the connection of the ends of two concentric pipes, particularly useful in the construction of small-diameter, heat-insulated ducts

The 16th June 1987

439/Mas/87 Imperial Smelting Processes Limited. Recovery of copper from copper/lead alloys. (November 28, 1986; Great Britain)

The 17th June 1987

440/Mas/87 Nippon Shokubai Kagaku Kogyo Co., Ltd., Process for production of 1-aminothraquinone.

441/Mas/87 Reger Evan Billings. Method and apparatus for electrolyzing water.

442/Mas/87 Archibald Ian Jeremy Brain. Artificial airway device.

443/Mas/87 Alfatar AB. A method of heat stabilization.

The 18th June 1987

444/Mas/87 BBC Brown Boveri AG. Post Insulator.

445/Mas/87 Rhone-Poulenc Chimie. Biopolymer granules which can be quickly dispersed and dissolved.

The 19th June 1987

446/Mas/87 British Aerospace plc. Antenna System. (June 20, 1986; Great Britain).

The 22nd June 1987

447/Mas/87 PARTHASARATHY SHYAMALA NATHAN., A Chlorinator for the Continuous Generation and use of Chlorine in SITU.

448/Mas/87 NOBIL OIL CORPORATION. Oligomerization of Dlefins.

449/Mas/ZELLWEGER USTER LIMITED. Device for the automatic determination of parameters of textile test goods, such as threads, roves and ribbons.

450/Mas/87 STAUFFER CHEMICAL COMPANY OF WESTPORT. "Treatment of pyrophoric elemental phosphorus containing material".

451/Mas/87 UNION CARBIDE CORPORATION. Improving catalyst productivity in the polymerization of olefins.

The 23rd June 1987

452/Mas/87 LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, "Improvements in rotatable friction braking members for vehicle disc Brakes of the Liquid Liquid Cooled type". (11th June, 1983., June 17th, 1983., and November 1st, 83) Great Britain).

453/MAS/87 American Telephone and Telegraph Company. Depressed Cladding Optical Fiber Cable.

454/MAS/87 Vanipari Kutato Es Fejlesztő Vallalat. "Process and Apparatus for Making Anti-Wear Coating and Cutting Tool Produced with the Process".

455/MAS/87. RANK TAYLOR HOBSON LIMITED.
Metrological Apparatus (June 27th, 1986, U.K.).

456/MAS/87. KABUSHIKI KAISHA SHOWA SEISAKU-SHO. Front Wheel Fork for Motorcycles. (Divisional Patent Application No. 542/MAS/84).

457/MAS/87. KABUSHIKI KAISHA SHOWA SEISAKU-SHO. Front Wheel Fork Motorcycles. (Divisional Patent Application N. 542/MAS/84).

The 24th June, 1987

458/MAS/87. LUCAS INDUSTRIES PUBLIC LIMITED.
"Brake Actuator". (June 26th, 1986, Great Britain).

459/MAS/87. A. K. KANNAN. An Automatic inlet cut off circuit with an Visual indication.

460/MAS/87. HOECHST AKTIENGESellschaft. Cloning and use of the Transaminase gene Ilve.

461/MAS/87. STAMICARBON B. V. Process for the Removal of Heavy Metals from Acid, Phosphate-containing Aqueous Media.

462/MAS/87. WILLIAM BELL HUGLE. Improvements in the Manufacture of integrated circuits using holographic Techniques. (June 30th, 1986, Great Britain).

The 25th June, 1987

463/MAS/87. CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE. "A Hand Spinning Machine".

464/MAS/87. ZELJKO BEBEK VUKSTIC. "Improved Spring Hinge with a Damper".

The 26th June, 1987

465/MAS/87. COLIN JAMES ANDERTON. Water Absorbing Composition.

466/MAS/87. GULLICK DOBSON LIMITED. "Mine Roof Supports". (June 26th, 1986, U.K.).

467/MAS/87. INSTITUT FRANCAIS DU PETROLE. A Method of assisted Production of an Effluent to be Produced Contained in a Geological Formation.

ALTERATION OF DATE

(451/Mas/84)
160793—Ante dated to 23rd December, 1981.

(49/Del/84).
160828—Ante dated to 3rd October, 1980.

16844 (378/Del/84)—Ante dated to 10th July, 1980.

(569/Cal/85).
160873—Ante dated to 22nd July, 1983.

COMPLETE SPECIFICATION ACCEPTED

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"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

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CLASS : 148 L. 160787
Int. Cl. : G 03 c 1/00.

"AN ARTICLE CAPABLE OF PROVIDING A COLORED IMAGE".

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, DOMICILED AT 3M CENTER, SAINT PAUL, MINNESOTA 55144, UNITED STATES AMERICA.

Inventors : 1. RICHARD S. FISCH. 2. HAMID BARJESTEH.

Application for Patent No. 317/MAS/84 filed on 1st May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), The Patent Office, Madras Branch.

11 claims

An article capable of providing a colored image, said article comprising substrate having an at least one surface thereof a vapor-deposited colorant layer selected from the class consisting of pigments and dyes, said colorant layer having a transmission optical density of greater than 0.3 and less than 7.0, and over said colorant layer a photosensitive resist layer which is non-integral with said colorant layer, said photosensitive resist layer comprising either a positive—acting or negative—acting photosensitive resist layer.

(Complete specification 23 pages. Drg. 1 sheet).

CLASS : 23 A 160788
Int. Cl. : B 31 b 1/00.

AN AUTOMATIC BAG FORMING, FILLING AND CONVEYING MACHINE.

Applicant : I.C.A. S.P.A. AN ITALIAN COMPANY, OF BOLOGNA, DEL LITOGRAFO, ITALY.

Inventor : GINO RAPPARINI.

Application No. 339/MAS/84 filed May 7, 1984.

Appropriate office or opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 claims

An automatic bag forming, filling and conveying machine comprising a plurality of parallel vertically disposed rectangular mandrels capable of moving along an annular path means for feeding a sheet of material vertically downwardly adjacent one side of a mandrel at a predetermined position

adjacent said annular path and means for holding said sheet of material against the side of said mandrel for the said sheet about said mandrel to form an open top bag, a bag discharge means mounted within each mandrel with vertical reciprocating movement to discharge each bag formed downwardly from said mandrel, a cam means disposed adjacent to said annular path and operatively connected to each of said bag discharge means for periodically reciprocating said bag discharge means, a conveyor moveable along a second annular path below and partially coinciding with said first mentioned annular path, a plurality of bag supports carried by the said conveyor for receiving the bags discharged from said mandrels by said discharge means to support said bags during a subsequent bag filling and closing operation, the second conveyor moveable along an annular path coplanar with and tangential to the annular path of said first mentioned conveyor, a second plurality of bag supports mounted on said second conveyor with each bag support on each conveyor being comprised of a box having an open top and one open side with the open side of each box facing outwardly to the annular path of the conveyor to facilitate the lateral transfer of a bag from a box on one conveyor to a box on another conveyor means at the point of tangency.

Compl. specn. 16 pages.

Drg. 10 sheets

CLASS : 146 D 1

160789

Int. Cl. : G 01 c 3/00, G 01 j 1/00.

OPTICAL RANGE SIMULATOR DEVICE.

Applicant : BARR & STROUD LIMITED, A BRITISH COMPANY OF CAXTON STREET, ANNIESLAND GLASGOW G 13 1HZ, SCOTLAND.

Inventors : 1. TIMOTHY OWEN FRENCH, 2. DEREK RUSSELL CARLESS, 3. REGINAID ALBERT AULT, 4. MICHAEL BENJAMIN DARLOW.

Application for Patent No. 362/Mas/84 filed on 18th May 1984.

Convention date on 19th May 1983 and 14th February 1984 (8313875 & 8403899).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

An optical range simulator device for testing the ranging function of a laser rangefinder, comprising:

first means defining a first optical axis for receiving output pulses from the rangefinder to be tested;

second means defining a second optical axis parallel to said first optical axis for delivering return pulses to the rangefinder an optical fibre delay line having a fibre input end and a fibre output end;

the input end being coupled to receive light from said first optical axis and the output end being coupled to deliver light to said second optical axis;

characterised in that optical bridging means arranged to collect at least a portion of each pulse delivered at the output end of said delay line and to deliver each said collected pulse portion to the fibre input end of said delay line;

whereby for each output pulse received from the rangefinder along said first optical axis a series of successively delayed return pulses are delivered at the output end of the delay line at ranges successively augmented by that range distance represented by the optical fibre delay line.

Compl. specn. 15 pages.

Drg. 2 sheets

CLASS : 139 A & 167 C

160790

Int. Cl. : C 01 b 31/06.

A METHOD AND APPARATUS FOR MAKING DIAMONDS FROM DIMONDIFEROUS ORE OR GANGUE.

Applicant : THE BRITISH PETROLEUM COMPANY P.L.C. ERITANNIC HOUSE, MOORE LANE? LONDON, EC 2Y 9BU, ENGLAND, A BRITISH COMPANY.

Inventor : 1. DONALD LESLIE GERRARD, 2. JOHN EDWARD PREEDY, 3. KENNETH PHILIP JAMES WILLIAMS.

Application for Patent No. 373/Mas/84 filed on 23rd May 1984.

Convention date on 24th May, 1983/83 14 340/(GREAT BRITAIN).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

17 Claims

A method of making diamonds from a diamondiferous ore or gangue comprising:

the steps of passing discrete units of gangue through a beam of laser radiation capable of causing Raman spectral activation detecting the scattered Raman radiation by means of a detector;

the detector being adapted to actuate means for separating discrete units of diamond containing ore from the discrete units of non-diamond containing ore and collecting the separated discrete units.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 107 J

160791

Int. Cl. : F 02 n 11/00.

STARTER MOTORS WITH PROTECTION AGAINST BACK FIRING.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM, B 19 2XF, ENGLAND.

Inventors : DONALD ALLEN YOUNG, 2. RONALD WILSON.

Application for Patent No. 380/Mas/84 filed on 25th May 1984.

Convention date on 27th May 1983 & 8th September 1983. Nos. 8314793 & 8324071 (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A starter motor with protection against back firing including an electric motor, an epicyclic reduction gear mechanism driven by the electric motor, and a pinion gear wheel driven from the output member of the epicyclic reduction gear mechanism, the starter motor wherein the output member of the epicyclic gear mechanism is the planetary gear carrier of the mechanism and the annular gear of the mechanism is held against rotation relative to therefrom of the starter motor by a torque limiting clutch which when the annular gear is subjected to a torque in the direction opposition to that to which is subjected during cranking of the associated engine, and in excess of a predetermined value, slips so limiting the torque to which the epicyclic gear mechanism and the remainder of the starter motor drive train is subjected.

Compl. specn. 13 pages.

Drg. 4 sheets

CLASS : 179 A

160792

Int. Cl. : B 65 d 41/00.

TAMPER RESISTANT CONTAINER CAP.

Applicant : OWENS-ILLINOIS, INC., OF ONE SEAGATE TOLEDO, OHIO. 43666, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO U.S.A.

Inventor : SIDNEY MORTON LIBIT.

Application for Patent No. 447/Mas/84 filed on 19th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

17 Claims

A tamper resistant container cap comprising :

a container cap 13 having a top surface said top surface having a dispensing orifice therethrough;

a stopper with a hinged member for said dispensing orifice;

means attaching said stopper to said cap;

said means allowing pivotable movement of said stopper from said orifice closed position to an orifice opened position;

a flange member integrally molded with said stopper;

said flange member having a portion thereof extending over a portion of a said top surface movement of said stopper from said orifice closed position to said orifice opened position being resisted by engagement of said flange with said top;

means for quick removability of said flange from said stopper;

removal of said flange from said stopper providing an indication of tampering with said closure.

Compl. specn. 20 pages.

Drg. 3 sheets

CLASS : 40 B

160793

Int. Cl. : B 01 j 11/02.

PROCESS FOR PREPARING A TREATED PRECURSOR COMPOSITION SUITABLE AS A COMPONENT OF A CATALYST COMPOSITION CAPABLE OF PRODUCING HIGH DENSITY ETHYLENE HOMOPOLYMERS AND COPOLYMERS UNDER A PRESSURE OF LESS THAN 1000 PSI WITH LOW ACCOMPANYING ETHYLENE HYDROGENATION.

Applicant : UNION CARBIDE CORPORATION. MANUFACTURERS. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE LAWS OF THE STATE OF NEW YORK. UNITED STATES OF AMERICA, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : 1. BURKHARD ERIC WAGNERS. 2. GEORGE LEONARD GOFKE. 3. FREDERICK JOHN KAROL AND 4. KATHLEEN FRANCES GEORGE.

Application No. 451/Mas/84, filed June 20th 1984.

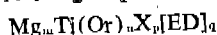
Division of Application No. 1446/C/81, dated 23-12-81.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A process for preparing a treated precursor composition suitable as a component of a catalyst composition capable of producing high density ethylene homopolymers and copolymers under a pressure of less than 1000 psi with low accompanying ethylene hydrogenation which comprises :

(A) forming a precursor composition of the formula



wherein R is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms, or COR' wherein R' is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms;

X is selected from the group consisting of Cl, Br, I and mixtures thereof,

ED is an organic electron donor compound selected from the group consisting of alkyl esters of aliphatic and aromatic acids, aliphatic ethers, cyclic ethers and aliphatic ketones,

m is 0.5 to 56

n is 0, 1 or 2,

p is 2 to 116, and

q is 2 to 85,

by dissolving at least one magnesium compound and at least one titanium compound in at least one liquid organic electron donor compound so as to form a solution of said precursor composition in said electron donor compound,

said magnesium compound having the structure MgX_2 , wherein X is as defined above.

Said titanium compound having the structure $\text{Ti}(\text{OR})_n$, X, wherein a is 0, 1 or 2, b is 1 to 4 inclusive and $a+b=3$ or 4, and R and X are as defined above,

said magnesium compound, said titanium compound, and said electron donor compound being employed in such amounts as to satisfy the values of m, n, p and q, and

(B) diluting said precursor composition with an inert carrier material,

characterized in that the diluted precursor composition is treated with a boron halide compound having the formula



wherein R is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms or OR', R' is an aliphatic or aromatic hydrocarbon radical containing from 1 to 14 carbon atoms,

X' selected from the group consisting of Cl, Br, and mixtures thereof, and

c is 0 or 1 when R is an aliphatic or aromatic hydrocarbon radical and 0, 1 or 2 when R is OR'.

Compl. specn. 34 pages.

Drg. 1 sheet

CLASS : 80 k

160794

Int. Cl. : B 01 d 37/00.

APPARATUS FOR TAKING LIQUID SAMPLES FROM A MIXTURE OF LIQUID AND SOLID.

Applicant : RHONE-POULENC CHIMIE DE BASE, A FRENCH BODY CORPORATE OF 25 QUAI PAUL-DOUMER, 92408 COURBEVOIE, FRANCE.

Inventors : (1) ROBERT BENET, (2) MAURICE JOU-ANNIC.

Application No. 483/Mas/84 filed July 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

14 Claims

Apparatus for taking a liquid sample from a mixture of liquid and solid comprising :

means for filtering the mixture and receiving the filtered liquid;

a first liquid storage chamber connected by a first conduit to the said filtering and receiving means;

a second chamber for receiving the liquid sample and connected to the said filtering and receiving means by

a second conduit in parallel to the said first chamber; means for discharging the stored sample from the said second chamber to the exterior optoianllyhavcha3VPR means for diluting; and

a closure member disposed on the said second conduit to permit filling or emptying of the said second chamber independently of the said first chamber.

Compl. specn. 15 pages.

Drg. 2 sheets

CLASS : 116 F

160795

Int. Cl. : B 66 b 1/00.

CONTROL APPARATUS FOR HOISTING DRUM ELEVATOR.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, OF NO. 2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN; A JURIDICAL PERSON ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventor : MASAMI NOMURA.

Application No. 634/Mas/84 filed August 23, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

8 Claims

A control apparatus for a hoisting drum elevator in which a three-phase motor coupled to a drum on which a wire rope is wound, is driven by single-phase excitation thereof when a cage connected to a free end of the wire rope is downwardly operated, comprising:

a comparator for comparing a rotational speed of, said motor rotating in a direction corresponding to the downward movement of the cage with a predetermined setting value to generate a signal when the rotational speed is more than the predetermined value;

the said setting value being selected so that in a downward movement operation the motor is not held in shut down condition even if the holding torque is generated by single phase excitation;

signal generating means responsive to the output signal of said comparator for generating a signal; and

change over means responsive to said signal from said signal generating means for initiating supply of a single-phase electric power to said motor.

Compl. specn. 13 pages.

Drg. 2 sheets

CLASS : 163 D

160796

Int. Cl. : F 16 j 15/00.

DUAL SEAL SYSTEM FOR ROOTS BLOWER.

Applicant : AIR PRODUCTS AND CHEMICALS, INC., ROUTE 222, TREXLETON, PA 18087, U.S.A., A CORPORATION EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventors : (1) EDMUND POLLOCK THOMAS, (2) JOHN HENRY MUIR, (3) BRUCH CHARLES HARGUS.

Application No. 704/Mas/84 filed September 15, 1984.

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

4 Claims

A dual seal system for a Roots blower comprising:

a housing having an inlet and outlet port and walls defining a cavity therein;

closure plates secured at the ends of the housing for enclosing said cavity;

a pair of parallel shafts having cylindrical end portions extending transversely between said inlet and said outlet port and extending through said closure plates;

a bearing compartment at an end of said cylindrical end portions of said parallel shafts and external to said cavity and adjacent to said closure plates;

bearing disposed within each bearing compartment and cylindrical end portions for permitting rotation of the shaft therein;

lubricating means for said bearings while in said bearing compartment;

sealing means between the cavity and bearing compartment for preventing leakage of contaminants into and out of said compartment; and

lobed impellers disposed within said cavity and mounted on said shaft in coacting relationship with each other and the walls of the cavity whereby in operation a gaseous fluid is introduced through the said inlet port, trapped and compressed between adjacent lobes of each impeller and the walls of the cavity and then exhausted at some higher pressure through said outlet port, the improvement residing within said sealing means which comprises in combination:

(a) a seal housing disposed between said bearings and said closure plate;

(b) a floating seal disposed within said housing and embracing a cylindrical end portion of said shaft proximate said closure plate, said floating seal having a diameter slightly larger than said shaft thereby providing a circumferential clearance space between it and said shaft;

(c) a face seal disposed within said seal housing and embracing a cylindrical end portion of said shaft, said face seal proximate said bearing and adapted for rotation with said shaft;

(d) a fluid inlet passage disposed within said seal housing and in communication with said floating seal and said face seal, said passage permitting continuous flow of gas through said clearance space between said floating seal and said shaft and into said cavity and continuous flow to said face seal;

(e) a mating surface disposed about said shaft and proximate said face seal, said mating surface designed for sealing contact with said face seal, and adapted for rotation relative to said face seal; and

(f) means for urging said face seal and said mating surface toward each other to provide sealing contact therewith.

Compt. specn. 13 pages.

Drg. 2 sheets

CLASS : 40 F & 201 D

160797

Int. Cl. : C 02 c 5/00.

PROCESS FOR TREATMENT AND RECOVERY OF MERCURY CONTAINED IN INDUSTRIAL WASTE WATERS.

Applicant & Inventors : 1. CHALAKKAPPILLY NARAYANA PILLAY GOPINATHAN NAIR, MANAGER, 2. KAVOOR CHERLIAN GEORGE, SUPERINTENDENT, 3. UNNIPARAMBATH CHANDRAHASAN, SUPERINTENDENT, 4. PARARATH SUBRANMANIAN ASOKAN, SUPERVISOR, (CHEMICAL CONTROL) TRAVANCORE COCHIN CHEMICAL LIMITED, UDYOGAMANDAL, KERALA.

Application for Patent No. 800/Mas/84 filed on 26th October, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

1 Claim

A process for treatment and recovery of traces of Mercury contained in Industrial Waste Waters comprising the steps of :—

- (1) adding sufficient hydrochloric acid or caustic soda to the waste water to bring the pH to nearly 7.
- (2) adding sufficient quantity of Sodium Sulphide to the said waste water so as to provide an excess of 30 to 50 mg of Sulphide per litre of the waste water and simultaneously adding hydrochloric acid sufficient to maintain a pH of 4 in the waste water.
- (3) adding Aluminium Sulphate at this stage upto 25 mg/litre of the waste water and thereafter raising its pH to 6.2 by adding caustic soda whereby mercuric sulphide is converted from unfilterable colloidal state to a coagulated precipitate; and
- (4) recovering the said precipitated mercuric sulphide by filtration thereby bringing down the mercury content of the treated waste water to less than the tolerance limit of 0.01 mg/l maximum.

Compl. specn. 7 pages.

Drg. Nil

CLASS : 72-B

160798

Int. Cl. : C 06 b 1/00.

IMPROVED WATER-IN-OIL EMULSION EXPLOSIVE COMPOSITIONS AND METHOD OF MANUFACTURE THEREOF.

Applicant : IEL LIMITED FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF 34 CHOWRINGHEE, CALCUTTA 700 071, WEST BENGAL, INDIA.

Inventors : 1. KARUR VARADARAJAN SESHADRI, 2. SRINIVASACHARI SESHAN, 3. SOUMENDRA NATH SEN.

Application No. 777/Cal/80 filed July 5, 1980.

Complete specification left on 12th October, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

An improved water-in-oil emulsion explosive composition which comprises :

- on the basis of the total weight of the composition;
 - a discontinuous aqueous phase comprising from 30% to 80% of water-soluble inorganic oxidiser salts such as herein described;
 - a continuous water-immiscible hydrocarbon liquid phase comprising from 1% to 10% soluble organic fuels such as herein described dispersed uniformly in said hydrocarbon liquid in discrete droplets of less than 1.0 micron;
 - one or more basic emulsifiers such as herein described;
 - one or more polymeric emulsifiers such as herein described and, optionally;
 - one or more conventional dispersing agents; said basic emulsifier
 - polymeric emulsifier and dispersing agent being present in an amount of from 0.3% to 5% by weight.

Provl. Specn. 7 pages.

Drg. Nil.

Compl. specn. 19 pages.

Drg. Nil

CLASS : 163-D

160799

Int. Cl. : F 04 b 35/00.

KEROSENE DRIVEN FAN DEVICE.

Applicant & Inventor : SONEYLAL THAKUR VISHWAKARMA KABIRCHAK, BELA, YAOOOB, P.O. MILKI-CHAK, DAFEHANGA, BIHAR, INDIA.

2—187 GI/87

Application No. 1114/Cal/81 filed October 3, 1981.

Complete specification left on 22nd September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A kerosene driven fan device comprising in combination two iron-clad cylinders, sealed with air inside them, an inter-connecting passage between the cylinders for air to pass therethrough pistons one each in the said cylinders which is operated by the heat generated by a kerosene stove fixed at the bottom of one of the cylinders, and a fan with blades fixed through a crank and a flywheel to the rods of the two pistons.

Provl. specn. 3 pages.

Prov. Drg. Nil

Compl. specn. 5 pages.

Compl. Drg. 1 sheet

CLASS : 80-K

160800

Int. Cl. : B 65 d 87/46; 89/24.

TRANSMISSION FLUID FILTER AND METHOD OF MANUFACTURE.

Applicant : SEALED POWER CORPORATION, OF 100 TERRACE PLAZA, MUSKEGON, MICHIGAN 49443, U. S. A.

Inventors : 1. DAVID LEE ANDERSON, 2. ROBERT FRANK HITCHCOCK, 3. ROBERT MATTEO TAMBURINO.

Application No. 374/Cal/82 filed April 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A transmission fluid filter (20 or 70) comprising :

- a first member (22 or 72) of plastic construction;
- a second member (24 or 24b) of sheet metal construction;

means (42 or 42b) about the periphery of said first and second members fastening said members to each other to form an internal fluid cavity and filter means (26 or 26b) carried by said members for filtering fluid during passage through said cavity;

characterized in that said fastening means (42 or 42b) about the periphery of said first and second members comprises a bead (56 or 56b) integrally extending around the periphery of said first member;

said bead having an arcuate surface (54) facing in a direction away from said second member; and

a flange (52 or 52b) integrally extending from said second member over said arcuate surface around the peripheries of said first and second members sealingly capturing said bead.

Compl. specn. 16 pages.

Drg. 3 sheets

CLASS : 156E

160801

Int. Cl. : F 04 c 7/00.

LIQUID RING VACUUM PUMP FOR FLUID MEDIA.

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : WILFRIED LUBKE.

Application No. 443/Cal/82 filed April 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A liquid ring vacuum pump for a fluid medium comprising :
a machine housing;

- a rotor eccentrically mounted in the housing;
 - a rotor shaft mounted in bearing plates which close-off the frontal face of the housing;
 - a separate inlet and outlet provided in at least one of said bearing plates for said medium which communicate with rotor-blade chambers defined in the housing by the rotor and closed-off in use peripherally by the liquid ring;
 - a plane control disc having a rotor-shaft aperture and arranged between said one bearing plate and the housing;
 - suction and pressure slots formed in the control disc which allow communication between said inlet and said outlet and said chambers;
 - an intake channel for pressure liquid arranged between the inlet and outlet and connected to a pressure liquid supply line; and
 - a pressure liquid discharge opening arranged in the control disc to communicate with said channel and to allow pressure liquid to flow-off in use into the liquid ring so as to seal any leakage gaps for the medium;
- in which the control disc has at least one intake channel arranged in its side which faces the rotor and upstream of the suction slot and below the rotor-shaft aperture with respect to the intended direction of rotation of the rotor, the intake channel extending over the area of the hub of the rotor into the area of the rotor-blade chambers and communicating with said pressure liquid discharge opening;
- and in which a surp of the vacuum pump, or a filter arranged downstream of the outlet in said one bearing plate (when the filter is present), is connected exclusively to a pressure liquid supply line leading to a pressure liquid feed in the control disc.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 85-G & J

160802

Int. Cl. : F 27 b 15/00.

FLUIDIZED BED FURNACE FOR GENERATION OF STEAM.

Applicant : COMBUSTION ENGINEERING, INC. OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : 1. STEPHEN LEWIS GOODSTINE. 2. GLEN DAVID JUUKOLA.

Application No. 1293/Cal/82 filed November 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A fluidized bed furnace for generation of steam, such fluidized bed including a housing, and an air distributor extending across the housing, means for introducing particulate matter onto the upper surface of the air distributor, a plurality of passages in the air distributor through which fluidized air flows, restriction means within each passage which causes automatic increase on the flow area within each passage as the flow velocity therethrough increases, thus keeping the pressure drop across the variable restriction means fairly constant.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 40-F

160803

Int. Cl. : C 22 b 39/00.

METHOD OF DEPOSITING A LAYER OF EXTREMELY HARD CHROMIUM ON A SUBSTRATE.

Applicant : CENTRE STEPHONIS DE RECHERCHES, MECANIQUE HYDRO-MECANIQUE ET FROTTEMENT, OF RUE BENOIT FOURNEYRON-ANDREZIEUX BOUTHEON, LOIRE, FRANCE.

Inventors : 1. ANDRE AUBERT, 2. JACQUES CHEVALLIER, 3. ANTOINE GAUCHER, 4. JEAN-PAUL TERRAT.

Application No. 16/Cal/83 filed January 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A method of depositing on a substrate a layer of extremely hard chromium and at least one element E, such as carbon and nitrogen, that is capable of forming an insertion solid solution with the chromium, said method comprises cathodic vaporisation under vacuum, of chromium and said element E characterised in that the content of element E falls between a lower limit T_m and an upper limit T_M such that between these two limits none of the compounds or phases thermodynamically predicted according to the equilibrium diagram of chromium with the element E under consideration, are found in the layer, the lower limit T_m being the saturation limit of the chromium/element E solid solution as defined by the equilibrium diagram between chromium and the said element E.

Compl. specn. 17 pages.

Drg. Nil

CLASS : 129-G

160804

Int. Cl. : B 65 g 47/00.

TRANSFER MACHINE CONTROL APPARATUS.

Applicant : THE CROSS COMPANY, 17801 FOURTEEN MILE ROAD, FRASER, MICHIGAN 48026, U.S.A.

Inventors : 1. LAWRENCE L. CHYNOWETH, 2. CONARD J. GORDON.

Application No. 25/Cal/83 filed January 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Transfer machine control apparatus comprising :

a load station for receiving workpieces to be operated upon by the machine;

a plurality of selectively located work units for performing pre-specified work operations upon said workpieces;

transfer means for moving each of said workpieces from said load station to each of said work units in a predetermined sequence, each workpiece being moved from one of said work units to the succeeding work unit during a workpiece transfer cycle in a succession of transfer cycles;

digital code storage means connected to receive a first digital code if a part is received by said load station prior to a transfer cycle, said storage means receiving a second digital code if a part is not received by said load station prior to a transfer cycle, said storage means being provided with a number of discrete digital code storage positions, each of said work units uniquely corresponding to one of said storage positions;

means for shifting said received digital codes within said storage means in association with the occurrence of said workpiece transfer cycles so that at the conclusion of an arbitrary number of said transfer cycles, the digital code contained in a given one of said storage positions comprises said first digital code if a workpiece is located at the work unit corresponding to said given storage position, and comprises said second digital code if a workpiece is not located at the work unit corresponding to said given storage position; and

selective enabling means responsive to the contents of said given storage position for enabling the work unit corresponding to said given storage position to perform its pre-specified operation if said first digital code is contained in said storage position, and for causing the work unit corresponding to said given storage position to remain idle if a second digital code is contained in said given storage position.

Compl. specn. 26 pages.

Drgs. 5 sheets

CLASS : 63-A & B

160805

Int. Cl. : H 02 k 3/00.

STATOR WINDING BAR FOR ALTERNATING CURRENT DYNAMOELECTRIC MACHINE.

Applicant : LENINGRADSKOE PROIZVODSTVENNOE ELEKTROMASHINO-STROITELNOE OBIEDINENIE "ELEKTROSILA" IMENI S.M. KIROVA, LENINGRAD, PROSPEKT, 158, MOSKOVSKY, U.S.S.R.

Inventors : 1. ANATOLY VLADIMIROVICH ANDREEV, 2. ANATOLY DENISOVICH IGNATIEV, 3. GARRI MIKHAILOVICH KHUTORETSKI

Application No. 259/Cal/83 filed March 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A stator winding bar of an alternating current dynamoelectric machine comprising solid and hollow insulated conductors arranged in two vertical rows and transposed in the slot portion of the bar, the conductors of each pair of the adjacent solid conductors within the same row being transposed together while each solid conductor occupying at the outlet of the slot portion the extreme position in the row is separated in the end portions of the bar from the conductor transposed together with it and placed on top of the extreme hollow conductor in the other vertical row.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 140-B₁

160806

Int. Cl. : E 21 b 45/00

WORKING SHIP FOR TRANSFERRING LARGE OFFSHORE STRUCTURES-1.

Applicant : HITACHI ZOSEN CORPORATION, 6-14, EDOBORI 1-CHOME, NISHI-KU, OSAKA, JAPAN.

Inventors : 1. TERUKAZU INOUE, 2. MASAO ARAKI, 3. MASA HARU YAMAMOTO, 4. KOJI MISAKI.

Application No. 409/Cal/83 filed April 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A working ship for transferring the large offshore structures comprising a lower hull 2, a plurality of guide posts 3 extending upward from opposite side portions of the lower hull 2, an upper hull 4 supported at opposite side portions by the guide posts 3 and movable upward and downward, and lifting means 5 for moving the upper hull 4 upward and downward along the guide posts 3.

Compl. specn. 9 pages.

Drgs. 3 sheets

CLASS : F06, 120-B₃ & 4

160807

Int. Cl. : B 65 g 45/02+53/00.

APPARATUS FOR TRANSFERRING A BINGHAM SOLID THROUGH A LONG CONDUIT.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON DELAWARE, UNITED STATES OF AMERICA.

Inventor : DAVID LINN COURSEN.

Application No. 543/Cal/83 filed May 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Apparatus for aiding in the transfer of a Bingham solid by lubricated plug flow through a conduit comprising :

- (a) a first cylinder 1 open at both ends and having a substantially uniform internal diameter D_1 ,
- (b) a second cylinder 2 open at both ends and having a substantially uniform internal diameter D_2 less than the internal diameter D_1 of said first cylinder 1, the outer surface of said second cylinder being stepped down at one end in a manner such that (1) an initial stepdown portion 4 has a diameter which is less than the outer diameter, and greater than the internal diameter D_1 of said first cylinder 1, and (2) a terminal stepdown portion 5, adjacent a blunt end surface 3 of said second cylinder 2, has a diameter which is substantially uniform and less than the internal diameter D_1 of said first cylinder 1; and
- (c) a third cylinder 6 open at both ends and fitted over, and in fluid-tight, axially rigid, coupling engagement with, overlapping ends of said first and second cylinders, said first and second cylinders being positioned coaxially with respect to one another in a manner such that said blunt end, surface 3 adjacent said terminal stepdown portion 5 of the outer surface of said second cylinder 2 is inside said first cylinder 1, thereby forming coaxial, communicating, first and second cylindrical chambers, 7 and 8 delimited by the plane which passes through said blunt end surface 3, said initial stepdown portion 4 of the outer surface of said second cylinder 2, the end surface 9 of said first cylinder 1 adjacent thereto, and a portion 10 of the inside surface of said third cylinder 6 together forming an annular chamber 11 coaxial with said first and second cylindrical chambers 7 and 8, the relative displacement D_3 of said first and second cylinders along their common axis being adjustable at their coupling with said third cylinder, thereby allowing said annular chamber 11 to be (1) closed to said cylindrical chambers 7 and 8 whereby a portion of a surface 13 between said initial and terminal stepdown portions of the outer surface of said second cylinder 2 is in contact with a conforming portion of a facing surface 14 at the end of said first cylinder 1, or (2) open as a result of the separation of said conforming surface portions, said separation forming an annular passageway connecting said annular chamber with said first cylindrical chamber, said annular passageway 15 having a constricted throat portion 16 and a wider exit portion 17 that is coaxial with, and ends in said plane which delimits, said cylindrical chambers 7 and 8, the distal end 18 of said second cylinder 2 being adapted to connect with a source of Bingham solid, and the wall of said third cylinder 6 containing a passageway 19 from its outer surface to said annular chamber 11 adapted to connect with a source of lubricating liquid, and the distal end 20 of said first cylinder 1 being adapted to connect with a conduit for receiving Bingham solid and lubricating liquid exiting from said first cylindrical chamber 7.

Compl. specn. 26 pages.

Drg. 1 sheet.

CLASS : 40 A & F, 105 C & 125 B₂

• 160808

Int. Cl. : B 01 j 1/14 & 9/00

G 05 d 23/00.

ARRANGEMENT FOR CONTROLLING THE TEMPERATURE OF A REACTOR E. G. OLFIN OXIDATION REACTOR.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventor : SURESH CHANDRA AGARWAL.

Application No. 546/Cal/83 filed May 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A system for controlling the temperature of a reactor for conducting a reaction e.g., for olefin oxidation from at least one reactant to at least another product, the reactor having a feed line for the reactant and an effluent line for the product, the system comprising :

- a feed flow transmitter connected to the feed line for measuring the flow (F_1) of reactant to the reactor;
- a reactor temperature transmitter connected to the reactor for measuring a temperature (T_r) of the reactor;
- a coolant flow line to the reactor for supplying coolant to the reactor at a coolant flow rate;
- coolant flow control means in the coolant line; and circuit means connected to said feed flow and reactor temperature transmitters and to the coolant flow control means for controlling the flow of coolant to the reactor according to a coolant flow signal;

the system being characterised by :

- an effluent flow transmitter connected to the effluent line for measuring the flow (F_2) of product from the reactor;
 - a feed temperature transmitter connected to the feed line for sensing the reactant temperature (T_1);
 - an effluent temperature transmitter connected to the effluent line for measuring the product temperature (T_2);
 - a concentration transmitter connected to the effluent line for measuring the concentration of the at least one product in the effluent line;
- and in that the circuit means
- (i) is connected to said effluent flow transmitter, said feed temperature transmitter, said effluent temperature transmitter and said concentration transmitter,
 - (ii) is adapted to receive signals proportional to the heat of reaction for at least one reaction in the reactor, specific heats of the reactant and product, and the heat of vaporization of the coolant,
 - (iii) is adapted to be operable to obtain values for changes per unit time in feed flow rate (ΔF_1), effluent flow rate (ΔF_2), feed temperature (ΔT_1), reactor temperature (ΔT_r), effluent temperature (ΔT_2), and concentration of at least one product (Δy),
 - (iv) includes circuit components for multiplying each change per unit time by a characteristic factor to provide partial flow control signals, and
 - (v) is adapted to be operable to process arithmetically the partial flow control signals to provide a quantity (ΔQ) indicative of required change in coolant flow rate, which quantity (ΔQ) is used to change the coolant flow signal.

Compl. specn. 18 pages.

Drg. 1 sheet

CLASS : 119 B & F₈ & 4

160809

Int. Cl. : D 03 d 37/00.

A CIRCULAR LOOM.

Applicant : SETAFIN S. A., OF 31ST STREET 3-80, PANAMA 5, REPUBLIC OF PANAMA.

Inventor : GOETZ PETSCHNER.

Application No. 566/Cal/83 filed May 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A circular loom comprising a circular sley provided with guide means, a plurality of shuttles provided with rollers engaging the guide means to guide circulation of the shuttles around the sley, and cooling medium dispensing means arranged at the sley to extend around the entire circumference thereof and provided with outlet openings directed towards the path of warp threads in the region of the sley.

Compl. specn. 8 pages.

Drgs. 2 sheets

CLASS : 194 B

160810

Int. Cl. : G 01 l 21/00.

VACUUM INTERRUPTER.

Applicant : KABUSHIKI KAISHA MAIDENSHA, 1-17, OHSAKI, 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventor : (1) YUTAKA KASHIMOTO, (2) TOSHIMASA FUKAI AND (3) MASAYUKI KANO.

Application No. 629/Cal/83 filed May 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A vacuum interrupter having a vacuum envelop comprising :

- at least one disc-shaped insulating end plate of insulating ceramics which has a closable aperture at the center thereof;
- inner diameter side and outer diameter side metallized layers which are respectively formed in an inner diameter region of said plate and an outer diameter region of a sealing surface of said plate, said inner and outer metallized layers each having an edge within said vacuum envelope, said edges separated from one another;
- a cylindrical metallic housing having at least one opening end which is hermetically brazed to said outer diameter side metallized layer; and
- a metallized layer edge shield which is provided within said vacuum envelope near at least one of the spaced edges of the inner diameter side and outer diameter side metallized layers, for preventing occurrence of electric field concentration at the edge of said metallized layers.

Compl. specn. 17 pages.

Drgs. 4 sheets

CLASS : 102 C

160811

Int. Cl. : G 01 f 15/00.

DEDICATED CORRELATOR.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventor : WILLIAM LEE THOMPSON.

Application No. 688/Cal/83 filed June 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A correlator for establishing correlation of two noise signals having positive and negative polarity components comprising:

an input polarity comparator for each signal, for generating a pulse wave for each signal having a high level upon the occurrence of one of the positive and negative polarity components and a low level upon the occurrence of the other of the positive polarity components;

variable delay means connected for receiving one of the pulse waves and delaying that one of the pulse waves by a variable delay amount;

wave correlation means for receiving the other of the pulse waves and the delayed one of the pulse waves and generating a correlation signal which is high with correlation between the delayed and other pulse waves and low with low correlation thereof;

sweep means connected to said variable delay means for varying the delay amount in an increasing and decreasing direction;

peak lock means connected to said sweep means and to said wave correlation means for determining whether the correlation signal is increasing or decreasing and with a decreasing correlation signal, controlling said sweep means to change the direction of variation thereof so that a particular delay amount corresponding to a maximum correlation signal is obtained; and

scaling means connected to said sweep means for receiving the particular delay amount and generating a readable signal therefrom.

Comp. specn. 18 pages.

Drg. 2 sheets

CLASS : 132 D.

160812

Int. Cl. : G 05 d 7/00, 11/00 and 21/00.

AN APPARATUS FOR CONTROLLING THE BLENDING OF A RICH STREAM.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LA 70100, UNITED STATES OF AMERICA.

Inventor : SURESH CHANDRA AGARWAL.

Application No. 689/Cal/83 filed June 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An apparatus for controlling the blending of a rich stream having a primary and a secondary component and a diluting stream to form a blended stream comprising:

(a) means connected to the rich stream for obtaining the values V_1 , the volumetric flow rate of the rich stream; O_1 , the specific gravity of the rich stream; y_1 , the concentration of primary component in the rich stream; P_1 , the density of primary components in the rich stream; T_1 , the density of secondary component in the rich stream; and P^{H_2O} , the density of water in the rich stream;

(b) means connected to the diluting stream for regulating the volumetric flow rate V_2 of the diluting stream;

(c) means connected to the blended stream for obtaining the values of G , the specific gravity of the blended stream; y_2 , the concentration of primary component in the blended stream; P_2 , the density of primary component in the blended stream; and P^{H_2O} , the density of water in the blended stream; and

(d) logic means connected to the means connected to the rich, diluting and blended stream for obtaining a value V_2 corresponding to a desired volumetric flow

rate of the diluting stream and for applying that value to the means for regulating the volumetric flow rate of the diluting stream.

(e) wherein said logic means is operable according to the following

$$V_2 = \frac{P_1^2}{P_2^2} \cdot \frac{V_1}{y_3} \cdot \frac{y_1}{y_2} \cdot \frac{P_1^1}{P_2^1} \cdot \frac{H_2}{H_1}$$

wherein P_2^2 is the density of secondary component in the diluting stream, the apparatus including means connected to the diluting stream for generating P_2^1 .

Comp. specn. 15 pages.

Drg. 2 sheets

CLASS : 84 A & 88 E

160813

Int. Cl. : C 01 b 2/02, C 10 j 3/00 and C 10 k 1/00 & 3/00.

METHOD OF GENERATING A REDUCING GAS.

Applicant : MIDREX INTERNATIONAL B.V., OF WILFRIEDSTRASSE 12, 8032 ZURICH, SWITZERLAND.

Inventors : 1. FRANK VIRGIL SUMMERS, 2. DAVID CHARLES MFSSENER, 3. RONALD BROWN.

Application for Patent No. 691/Cal/83 filed June 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An improved method for generating a partially desulfurized partial oxidation reducing gas wherein sulfur-containing fuel, oxygen and a flux are injected into a molten iron bath within a pressure-tight vessel beneath the surface of the bath to produce a partially-desulfurized partial-oxidation gas having a hydrogen and carbon monoxide content of at least 80%, the molten iron bath consisting essentially of from 1.5 to 4.5 percent carbon, the balance substantially iron, the molten iron bath having a slag layer thereon, the improvement comprising:

(a) injecting a coolant into the molten iron bath beneath the surface of the bath, said coolant being steam, or a fuel-rich gas selected from the group consisting of hydrogen, carbon monoxide, carbon dioxide-lean spent top gas from a direct reduction furnace, methane, and any mixture thereof;

(b) maintaining the temperature of the molten iron bath between 1350°C and 1600°C by monitoring the molten iron bath temperature and increasing or decreasing the coolant flow rate to lower or raise the bath temperature respectively as required;

(c) quenching the partial-oxidation gas with carbon dioxide lean gas to produce a tempered reducing gas at a temperature between 800 and 900°C;

(d) introducing said tempered reducing gas into a direct reduction furnace having an iron oxide burden therein to reduce the iron oxide to metallized iron product and form a top gas;

(e) removing the top gas from the furnace and removing a substantial portion of the carbon dioxide therefrom to form a CO_2 -lean gas; and

(f) introducing said CO_2 -lean gas to the bottom of the molten iron bath as at least a portion of the coolant to cool the molten iron bath.

Comp. specn. 10 pages.

Drg. 3 sheets

CLASS 150 G

160814

Inventor KAZUYUKI KITAMURA.

Int Cl F 161 23/00

Application No 812/Cal/83 filed 30th June, 1983.

A DEVICE FOR RESTRICTING THE RELATIVE POSITION OF A BURSTING DISC UNIT BETWEEN A PAIR OF PIPE FLANGES

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Applicant JOHNSON MATTHEY PUBLIC LIMITED COMPANY, OF 43 HATTON GARDEN, LONDON EC1N 8EE, ENGLAND

Process for the production of polyhexamethylene adipamide fibers having.

Inventors GLENTON PATRICK McFARLANE AND STEVEN GREGORY SWIFT

-- a tenacity of at least 10 g/d and

Application No 693/Cal/83 filed June 01, 1983

-- a coefficient of stability of the molecule of at most 0.20,

Convention date 4th June, 1982 (8216294) U K

where said process is a direct spinning, drawing and heat-setting process, characterized as follows —

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta

(i) polyhexamethylene adipamide is

7 Claims

— obtained by melt polymerization and

A device for restricting the relative position of a bursting disc unit between a pair of pipe flanges, in which a predetermined collar of the bursting disc unit comprises a cut-away portion and the pipe flange, against which the said collar is required to bear, comprises a projection matching with the cut away portion, the projection being attached to, or forming an integral part of the flange whereby the location of the bursting disc unit between the pipe flanges in the predetermined orientation is ensured

— having a formic acid relative viscosity of at most 70 i, used as starting material

(ii) the starting material according to (i)

— is subjected to a solid-phase polymerization at a temperature of 180 to 240°C and

Compl specn 11

Drg 2 sheets

— up to a formic acid relative viscosity of 75 to 150,

CLASS 144 E₆

160815

Int Cl C 09 C 1 00, 3/00

(iii) the polymer obtained according to (ii) is subjected to said direct spinning, drawing and heat-setting process, where said drawing of the fiber resulting from the spinning is carried out in at least two steps between stretching means supporting said fiber, where the ratio (D₂) of the speed of said fiber leaving drawing step having the highest surface speed to the speed of said fiber entering to the first drawing step satisfies the following condition,

PROCESS FOR THE PREPARATION OF NACREOUS PIGMENTS HAVING AN IMPROVED STABILITY TO WEATHERING

speed of said fiber entering to the first drawing step satisfies the following condition

Applicant MIROCK PATENT GESellschaft MIT BESCHRANKTER HAFTUNG POSTFACH 4119, 61000 DARMSTADT 1 FRANKFURTER STRASSE 250, FEDERAL REPUBLIC OF GERMANY.

$5.2 \leq DR \leq 6.5$ and

Inventors : DR. KALUS-DIETER FRANZ, DR. KLAUS AMBROSIOUS, DR. REINER ESSELBORN, DR. MANFRED KIESER.

where at least one stretching means (except the first one of the said stretching means) has a surface temperature of 220° to 250°C, and (iv) the fiber stretched according to (iii) is wound in such a manner as to satisfy the following conditions

Application No. 761/Cal/83 filed June 17, 1983.

$0.92 \geq TS/GS \geq 0.86$

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

where TS = winding speed and

9 Claims

GS = speed of the fiber leaving the stretching step having the highest surface speed,

Process for the preparation of nacreous pigments which have an improved stability to weathering and are based on mica flakes coated with metal oxides and provided with a stabilizing chromium-containing second coating, characterized in that iron and/or manganese and chromium are added, in the form of salt solutions and at a pH value of between 2 and 8, to an aqueous suspension of a mica flake pigment coated with metal oxides such as herein described especially titanium dioxide, and are precipitated and coated in a manner as herein described in the form of the hydroxide, carbonate or phosphate (in case of iron and/or manganese) and in form of the hydroxide, carbonate or phosphate or as methacrylatochromium chloride (in case of chromium) on the said mica flake pigment coated with metal oxides and this is then separated off and dried.

Comp specn 33 pages

Drg 2 sheets

Compl. specn. 11.

Drg. Nil

CLASS : 34 A

160816

Int. Cl. : D.01 f 7/04.

CLASS 144-F & 155 D

160817

Int. Cl. A 61 I 15/06, C 09 J 7/04

METHOD OF MAKING A SUBSTRATE WITH A LOW SURFACE ENERGY LINER

Applicant MINNESOTA MINING AND MANUFACTURING COMPANY, AT 3M CENTER, SAINT PAUL, MINNESOTA 55144, USA

Inventor PAUL ERNEST OLSON

Application No 819/Cal/83 filed 1st July, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta

9 Claims

Method of making a substrate with a low surface energy liner, comprising the steps of:

PROCESS FOR THE PRODUCTION OF POLYHEXAMETHYLENE ADIPAMIDE FIBERS.

(a) providing a dilute solution of polymerizable monomer having a polymerizable functionality greater than 1 and comprising perfluoropolyether segments which are a plurality of $-C_6F_{10}O-$ repeating units, where

Applicant : ASAHI KASEI KOGYO KABUSHIKI KAISHA, OF 2-6, DOJIMAHAMA, 1-CHOME, KITA KU, OSAKA JAPAN.

subscript a in each such unit is independently an integer from 1 to 4,

(b) coating said solution onto the substrate,

(d) in-situ polymerizing the monomer to provide an insoluble polymer having a cohesive network adhered to the substrate.

Compl. specn. 23 pages.

Drg. 2 sheets

CLASS : 155 D, 144 L.

160818

Int. Cl. : A 61 I 15/06; C 09 j 7/04.

"METHOD OF MAKING A SUBSTRATE WITH A COMPOSITE LINER."

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, AT 3M CENTER SAINT PAUL, MINNESOTA 55144, U.S.A.

Inventor : JAMES MICHAEL FARSON AND ALLEN LEONARD NORFEN.

Application No. 820/Cal/83 filed 1st July, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

Method of making a substrate with a composite liner, comprising the steps of :—

(a) coating onto the substrate a first dilute solution of polymerizable, film-forming monomer having a polymerizable functionality greater than 1 to provide an inner coating;

(b) coating over the coating of step (a) a second dilute solution of a polymerizable, film-forming, monomer copolymerizable with the monomer of said first solution and comprising a perfluoropolyether segment which comprises a plurality of $-C_2F_2O-$ repeating units, where subscript a is independently in each such unit an integer from 1 to 4, thus providing an outer coating;

(c) drying said coatings and copolymerizing said monomers, thereby bonding said inner layer and outer layer to one another.

Compl. Specn. 22 pages

Drg. 2 sheets.

CLASS : 116 G.

160819

Int. Cl. : B 65 g 49/00.

"ON-LINE COAL ANALYZER."

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS LA 70160, UNITED STATES OF AMERICA

Inventor : THOMAS LEE BOHI.

Applicant for Patent No. 825/Cal/83 filed July 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Apparatus for the on-line analysis of a coal sample comprising a sample cup of predetermined volume, a first station including means for filling said sample cup with a sample of pulverized coal, a second station including means for performing one or more analysis procedures on said sample, a third station including means for receiving the residue of said sample after completion of said analysis procedures, a fourth station including means for cleaning said sample cup, and means for indexing said sample cup sequentially from said first through said fourth station and back to said first station

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 176-I.

160820

Int. Cl. : F 22 b 13/00, 33/00 & 37/00.

"A PULVERIZED COAL FIRED STEAM GENERATOR."

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : RICHARD WAYNE SANTALLA.

Application for Patent No. 878/Cal/83 filed July 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A pulverized coal-fired steam generator having a direct-fired furnace, at least two burners for burning pulverized coal in the furnace, a load-carrying pulverizer for pulverizing the coal to be supplied to the furnace, and a plurality of conduits, one conduit per burner, interconnected between the burners and the pulverizer, each conduit conveying a coal/air stream consisting essentially of a dilute phase, pulverized coal and air mixture from the pulverizer to its associated burner and comprising :

(a) a separator for separating pulverized coal from air;

(b) a diversion conduit 22 interconnected between the separator and a first of the plurality of conduits interconnected between the burners 4, 6, 8 and the pulverizer 10;

(c) valve means 30 disposed at the interconnection of said diversion conduit with the first of the plurality of conduits for selectively diverting the coal/air stream flowing there through into said diversion conduit;

(d) a return conduit 26 interconnecting said separator with the first of the plurality of conduits at a location downstream of said valve means for venting the air removed from the coal/air stream in said separator to the furnace;

(e) a storage bin 16; and

(f) means for conveying the pulverized coal removed from the coal/air stream in said separator to the storage bin.

Compl. specn. 12 pages.

Drg. 1 sheet.

CLASS : 69 G.

160821

Int. Cl. : H 01 h 15/00.

"SHORT CIRCUIT SAFETY DEVICE FOR ENCLOSED SWITCHBOARD PROVIDED WITH SHUTTER DEVICE."

Applicant : KABUSHIKI KAISHA MITSUBISHI OF 1-17 OHSAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1 TOSHITARO YAMAMOTO, 2 SUEICHI KIDA.

Application No. 886/Cal/83 filed 16th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A short circuit safety device for an enclosed switchboard provided with a shutter device including a plurality of shutters (4) for closing the openings of disconnecting switch bushings fixed in the enclosed switchboard so as to be engageable with a plurality of circuit interrupter conductors (6) of a truck type circuit interrupter carried in or out of the enclosed switchboard and a plurality of locking means (12) for locking the shutters for safety after the truck type

circuit interrupter has been carried out of said enclosed switchboard, said safety device comprising :

- (a) a stopper rod (28) movably supported within said enclosed switchboard, said stopper rod being urged in one direction by a spring (40);
- (b) a stopper release lever (37) loosely supported by said stopper rod at one end portion of said stopper rod, said stopper release lever being formed with at least one locking hole at both the end portions of said stopper release lever in such a way that said locking means can be used for locking said stopper release lever when removed from the shutters; and
- (c) a stopper (19) pivotably supported within the enclosed switchboard and movably connected to said stopper rod at the other end portion of said stopper rod in such a way that said stopper is pivoted out of the path of the truck type circuit interrupter only when said stopper release lever is locked completely by said all locking means removed from the shutters and pivoted into the path of the truck type circuit interrupter by the force of said spring when said stopper release lever is not locked completely by said all locking means.

whereby the truck type circuit interrupter is inhibited from being carried into the enclosed switchboard when at least one of said locking means still locks one of the shutters and allowed to be carried into the enclosed switchboard for connection of the circuit interrupter conductors for the truck type circuit interrupter to the disconnecting switch bushings of the enclosed switchboard only when said all locking means are completely removed from said shutters and said stopper release lever is locked completely by said all removed locking means.

Compl. Specn. 26 pages.

Drgs. 6 sheets.

CLASS : 128-G & 189.

160822

Int. Cl. : A 61 h 11/00; B 26 b 19/00.

"ELECTRICALLY POWERED DEPIATORY DEVICE."

Applicant & Inventor : YAIR DAAR, OF MOSHAV GALIA, ISRAEL AND SHIMON YAHAV, OF 61, REMEZ STREET, RHOVOT, ISRAEL.

Application No. 955/Cal/83 filed 1st August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

An electrically powered depilatory device comprising :

- a hand held portable housing;
- motor means disposed in said housing; and
- a helical spring comprising a plurality of adjacent windings arranged to be driven by said motor means in rotational sliding motion relative to skin bearing hair to be removed, said helical spring including an arcuate hair engaging portion arranged to define a convex side whereat the windings are spread apart, and a concave side corresponding thereto where at the windings are pressed together, the rotational motion of the helical spring producing continuous motion of the windings from a spread apart orientation at the convex side to a pressed together orientation at the concave side and foreengagement and plucking of hair from the skin of the subject, the speed of surface rotation of the windings greatly exceeding the speed of movement of the entire housing over the skin.

Compl. Specn. 17 pages.

Drg. 4 sheets.

CLASS : 25 A & C.

160823

Int. Cl. : E 04 c 1/00.

"PAVING MADE UP OF CONSTRUCTION BLOCKS PRIMARILY FOR MAKING ROADS."

Applicant and Inventor : MICHAEL NEIL GLICKMAN, OF 80 LAMBLE STREET, LONDON, N. W. 5, ENGLAND.

Application No. 1008/Cal/83 filed 16th August, 1983.

Convention date 19th August, 1982 (8223934) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A paving made up of one layer of construction blocks, each block having top and bottom surfaces one of which is a rectangle and the other of which is a square or a rectangle, the block in the case where the other surface is a rectangle having the major axes of the rectangles mutually perpendicular and having a shape at mid-height in horizontal cross-section which is substantially a square and the length of the side of said square being within the range 66% to 300% of the height of the block and in the case where the other surface is square, the major axis of the rectangle being greater in length than the side of the square and the said square having a side of length within the range 66% to 300% of the height of the block; the blocks being laid such that they interlock on three axes and provide mutual support.

Compl. Specn. 15 pages.

Drgs. 4 Sheets.

CLASS : 108-B.

160824

Int. Cl. : C 21 b 1/00.

"SYSTEM FOR FIRING COAL HAVING A SIGNIFICANT MINERAL CONTENT IN A FURNACE AND A METHOD OF GENERATING STEAM FIRING SUCH COAL IN THE FURNACE OF A STEAM GENERATOR."

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD WILLIAM BARIO, 2. ARUM KUMAR MEHTA, 3. HUGH WHARTON NELSON.

Application No. 1009/Cal/83 filed 17th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A system for firing coal having significant mineral content in a furnace of a steam generator for the purpose of generating steam comprising a mill for crushing the coal, a classifier for dividing the crushed coal into a first stream substantially low in mineral content and a second stream of mineral-dense coal, a second mill for pulverizing the coal in said first stream, a third mill for pulverizing high mineral containing fraction of coal in said second stream to fine sizes, burners located near lower end of the furnace receiving coal pulverized by said second mill and burners located near upper end of furnace receiving high mineral containing fraction coal pulverized by said third mill and injecting the said into air rich high temperature zone in upper part of the furnace resulting in the minerals in said second stream of coal being roasted into compounds melting at high temperature retained in flue gas and removed as fly ash.

ompl. Specn. 12 pages.

Drgs. 1 sheet.

CLASS : 27 D & I.

160825

Int. Cl. : F 04 C 3/30.

A JACKING DEVICE.

Applicant : WESTPILE INTERNATIONAL U. K. LIMITED, OF DOLPHIN BRIDGE HOUSE, DOLPHIN WHARF, ROCKINGHAM ROAD, UXBRIDGE, ENGLAND

Inventor : ANTHONY LEWIS REDDAWAY.

Application No. 1051/Cal/83 filed 29th August, 1983.

Convention date : 2nd September, 1982 (8225052) U. K. and 19th January, 1983 (8301369) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A Jacking device comprising at least two blocks arranged one above another and a wedge interposed between two adjacent blocks, the upper surface of the uppermost block and the lower surface of the lowermost block being in parallel spaced relationship, at least one of the facing inner surface of adjacent blocks being inclined with respect to the upper surface of the uppermost block and the lower surface of the lowermost block, the wedge having two converging surfaces which lie parallel to and make sliding contact with the facing inner surfaces respectively of the two adjacent blocks, means for maintaining alignment between the wedge and the blocks in a direction normal to the direction normal to the direction of movement of the wedge relative to the blocks and parallel to the upper surface of the uppermost block and the lower surface of the lowermost block, a threaded drawbolt with a head at one end for moving the wedge along the facing inner surfaces of the two adjacent blocks to increase the separation between the upper surface of the uppermost block and the lower surface of the lowermost block, the drawbolt extending into a hole in the wedge from the thin end of the wedge and engaging with a thread in the hole or with a threaded nut, and a washer between the head of the drawbolt and an end surface of each of the adjacent blocks to maintain alignment between the two adjacent blocks in the direction of movement of the wedge.

Compl. Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 63-I.

160826

Int. Cl. : H 02 k 19/02.

CONTROL CIRCUIT OF A SYNCHRONOUS MOTOR WITH TWO INDUCED WINDINGS.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE DION, BOUJON, 92811 PUTEAUX CEDEX, FRANCE.

Inventor : ALBERT WIART.

Application for Patent No. 1134/Cal '83 filed September 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Control circuit of asynchronous motor with two induced windings including an electrical power supply assembly, two oscillators whose outputs are connected respectively to the windings of the said motor, an intermediary circuit connected on one side to the said power supply assembly, and on the other side to the input terminals of the said oscillators, a central unit of control of the thyristors, the said control circuit being unique in that with the said electrical power supply assembly (5, 7, 9) delivering a current of a given unique polarity, and having its output terminals connected by means of a freewheel branch including at least one freewheel diode (6) whose cathode is connected to the positive terminal of the said

power supply assembly (5, 7, 9), the said intermediary circuit (4) comprises, in combination :

a branch composed of two thyristors (10, 11) in series, between them linking the input terminals of the said intermediary circuit (4), which are connected respectively to one of the input terminals of the said oscillators, in a manner such that the chosen terminals are of opposite polarity,

a condenser (14) connected on one side to the junction point of the said two thyristors (10, 11) of the said branch, and on the other side to the two other input terminal of the said oscillators (2, 3), of inverse polarity,

two inductances (12, 13) of equal value, presenting a high coupling factor by mutual induction, connected respectively in series with one of the input terminals of the said oscillators (2, 3), the terminals chosen being of opposite polarity.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 104 I.

160827

Int. Cl. : CO8c 1/00.

"A PROCESS FOR THE MODIFICATION OF A HALOMETHYLATED LATEX".

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, a corporation organised under the laws of the State of Ohio, U. S. A., of 1144 East Market Street, Akron, Ohio 44316-0001, U. S. A.

Inventors : DONALD JAMES BURLITT & DANE KENTON PARKER.

Application for Patent No. 25/Del/84 filed on 6th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

13 Claims

A process for the modification of a halomethylated latex wherein said latex contains a surfactant of a non-ionic or ionotype such as herein described comprising contacting said latex with an aqueous alkaline solution such as herein described and an alkali ionizable molecule such as herein described containing antidegradant properties at a reaction temperature below 100°C and in the presence of a nitrogen atmosphere.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 32 E.

160828

Int. Cl. CO8f 1/00.

"A METHOD OF PREPARING POLYMERS OF A MONOMERS SELECTED FROM THE GROUP CONSISTING OF ETHYLENICALLY UNSATURATED MONOMERS AND HETEROCYCLIC MONOMERS".

Applicant : THE GENERAL TIRE & RUBBER COMPANY, a corporation organised under the laws of the State of Ohio, United States of America, of One General Street, Akron, Ohio 44329, United States of America.

Inventors : IVAN GLEN HARGIS, RUSSELL ANTHONY LIVIGNI, SUNDAR LAL AGGARWAL, ROBERT EDWARD BINGHAM, RICHARD RODNEY DRUST & HUBERT JAKOB FABRIS.

Application for Patent No. 49/Del/84 filed on 18th January, 1984.

Division-I to Application for Patent No. 719/Del/80 filed on 3rd October, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

14 Claims

A method preparing polymers of monomers selected from the group consisting of ethylenically unsaturated monomers and heterocyclic monomers such as herein described which comprises polymerising under inert conditions in a hydrocarbon solvent such as herein described, at a temperature of from 0 to 150°C, a monomer selected from the group consisting of a polymerizable heterocyclic monomer and a polymerizable ethylenically unsaturated monomer having an activated double bond with a catalyst in a minor effective amount sufficient to polymerize said monomer to obtain a polymer, said catalyst comprising (1) an alcoholate selected from the group consisting of barium alcoholate, calcium alcoholate and strontium alcoholate and mixtures thereof, (2) an organoaluminium compound and (3) an organomagnesium compound, where the mol ratio computed as metal of barium, calcium and/or strontium to magnesium is from 1 : 10 to 1 : 2 and where the mol ratio computed as metal of magnesium to aluminium is from 105 : 1 to 1.5 : 1.

Compl. Specn. 65 pages.

Drgs. 5 sheets.

CLASS : 32 F₃ (a).

160829

Int. Cl. : C07d-69/00.

"A PROCESS FOR THE PREPARATION OF ESTERS OF SUBSTITUTED 2, 2 DIMETHYL-3-CYCLOPROPANE ACETIC ACID".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

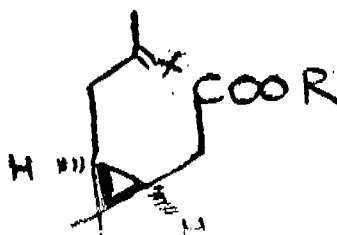
Inventors : RAJAT BARAN MITRA, BALAWANT NARAYAN JOSHI, MANDAKINI VISHVANATH NATEKAR, ARVIND ANANTARAO AND DILIP DIGAMBAR SHINDE.

Application for Patent No. 116/Del/1984 filed on 7th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

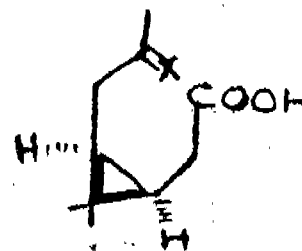
4 Claims

A process for the preparation of esters of substituted 2, 2 dimethyl-3-cyclopropane acetic acid of formula IA



accompanying this specification wherein X is oxygen or Hydrogen and R is an alkyl, cycloalkyl, cyclohexyl alkyl,

alkyl or aryloxyalkyl group which comprises subjecting alkyl esters of the corresponding acids of formula IB



to transesterification with an alcohol of the formula ROH wherein X and R have the meanings given above and an alkyl titanate as a catalyst.

Compl. Specn. 6 pages.

Dr. 1 sheet.

CLASS : 32 E & 32 F₄

160830

Int. Cl. C08f 27/00, C07b 13/02.

"IMPROVEMENTS IN OR RELATING TO THE PROCESS FOR SULPHONATION OF HIGH POLYMERS TO CATION-EXCHANGE MATERIALS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : POOKKATTUKUNNATH KRISHNAN NARAYANAN, SAMIR KUMAR ADHIKARY, WAMAN PRABHAKAR HARKARE, KOTTEYL PAZHANIANDI GOVINDAN.

Application for Patent No. 121/Del/1984 filed on 7th February, 1984.

Complete specification left on 14th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An improved process of sulphonation for conversion of high polymeric materials to ion-exchange materials which consists in reacting a co-polymer of polyethylene, styrene and divinyl benzene with a sulphonating mixture consisting of chlorosulphonic acid and an organic diluent at ambient temperature the concentration of the chlorosulphonic acid in the mixture being between 35 (V/V) to 10% (V/V).

Provl Specn. 6 pages.

Dr. 1 sheet.

Compl. Specn. 10 pages.

CLASS : 32 F₃ (a).

160831

Int. Cl. : C07c, 27/00.

"PROCESS FOR THE PREPARATION OF ALKYLENE CARBONATES AND OCIDES".

Applicant : THE HALCON SD GROUP, INC., a corporation organized and existing under the laws of the State of Delaware, having its office and principal place of business at 2 Park Avenue, New York, New York 10016, United States of America.

Inventor : STEPHEN ERNEST JACOBSON.

Application for Patent No. 131/Del/1984 filed on 14th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for the preparation of alkylene carbonates and oxides, from a halogen-free reaction, comprising :

reacting the corresponding olefins with thallic oxide and a weak acid of the kind such as herein described or, a weak acid thallic salt of the kind such as herein described together with carbon dioxide in an aqueous, organic solvent medium;

separating in any known manner the formed alkylene carbonates and oxides from the reaction medium.

Complete specification 15 pages.

CLASS : 206E, 29D

160832

Int. Class : H01h 67/00.

"AN APPARATUS FOR DETERMINING THE SPATIAL POSITION OF A PROBE".

Applicant : INTERAND CORPORATION, a Delaware corporation, OF 3200 WEST PETERSON, Chicago, Illinois 60611, U.S.A.

Inventors : LEONARD REIFFEL AND WAYNE DOUGLAS JUNG.

Application for patent No. 148/Del/84 filed on 20th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

21 Claims

An apparatus for determining the spatial position of a probe with respect to a conductive surface comprising :

conductive surface means having first and second pairs of regions;

drive means connected between said conductive surface means and a timing and switching means, for alternately providing current to the first pair of regions of said conductive surface means and to the second pair of regions of said conductive surface means; said timing and switching means providing signals to said drive means,

reference position shift means for alternately clamping first and second locations on said conductive surface means to a reference potential, said reference position shift means alternately clamping the first and second locations to the reference potential while said drive means provides current in succession to each of the first and second pairs of regions per each reference position;

probe means for providing a potential signal related to the potential on said conductive surface means at a point nearest to said probe means providing a first potential signal when the first location on said conductive surface means as clamped to the reference potential by said reference position shift means; and

processor means connected between said timing and switching means and said probe means for determining a first coordinate position of said probe means with respect to said conductive surface means from a relationship between said first and second potential signals and values of said first and second potential signals during the time said drive means is providing current to the first pair of regions of said conductive surface means, and for determining a second coordinate position of said probe means with respect to said conductive surface means from the relationship between said first and second potential signals and the values of said first and second potential signals during the time said drive means is providing current to the second pair of region of said conductive surface means.

Complete specification 40 pages.

Drawing 2 sheets

CLASS :—104 k[XII(1)]

160833

Int. Class :—B 29 h, 1/00.

"COMPOSITION FOR VISCOSITY DEGRADATION OF DIENE RUBBERS".

Applicant :—BAYER AKTIENGESELLSCHAFT, a body corporate organised under the laws of the Federal Republic of Germany of Leverkusen, Bayerwerk, Federal Republic of Germany, Manufacturers.

Inventor : HEINZ FISCHER.

Application for patent no. 183/Del/84 filed on 29th February, 84.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A composition used for viscosity degradation of diene rubber or its mixtures which comprises any known peptiser of the kind such as herein described in admixture with a booster selected from the group consisting of :

- (a) Iron (II)—and iron (III)—salts of inorganic acid;
- (b) Iron (II)—and iron (III)—salts of organic carboxylic acids;
- (c) Iron (II)—and iron (III)—salts of mercaptans;
- (d) Iron (II)—and iron (III)—complexes of ethylenediamine tetra-acetic acid;
- (e) Iron (II)—and iron (III)—cyanide complexes;
- (f) Iron (II)—and iron (III)—complexes with dimethylglyoxime;
- (g) Iron (II)—and iron (III)—salts of quinolin carboxylic acid or sulfosalicylic acid, 0.01 to 10 parts by weight of booster being used for 100 parts by weight of the peptiser.

Complete specification 13 pages.

CLASS : 140A₄

160834

Int. Class : C10m 3/10 & 3/12.

"ETHYLENE ALPHAOLEFIN BASED LUBRICATING COMPOSITION".

Applicant : UNIROYAL INC., a corporation organised under the laws of the State of New Jersey, one of the United States of America; having an office at 1230 Avenue of the Americas, New York, New York 10020, U.S.A.

Inventors : FREDERICK CHARLES LOVELESS, RAYMOND FREDERICK WATTS & WALTER NUDENBERG.

Application for patent no. 199/Del/84 filed on 5th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A lubricating composition comprising :

- (A) an ethylene-alphaolefin oligomer having a viscosity of 1000-3500 centistokes at 100°C, and
- (B) a synthetic hydrocarbon of the kind described herein, a viscosity of 1-10 centistokes at 100°C.

Compl. Specn. 21 pages.

Drg. 1 sheet.

CLASS : 140A₂

160835

Int. Cl. : C10m 3/10 & 3/12.

"A LUBRICATING COMPOSITION".

Applicant : UNIROYAL INC, a corporation organised under the laws of the State of New Jersey one of the United States of America having an office at 1230 Avenue of the Americas New York, New York 10020, U.S.A.

Inventors : FREDERICK CHARLES LOVELESS, RAYMOND FREDERICK WATTS & WALTER NUDENBERG.

Application for patent no. 202/Del/84 filed on 5th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A lubricating composition comprising :

(a) a first component of ethylene-alphaolefin oligomer having a viscosity of from more than 3,500 to 175,000 centistokes at 100°C and

(b) a low viscosity second component such as herein described having a viscosity of 1 to 10 centistokes at 100°C.

Compl. Specn. 22 pages.

Fig. 1 sheet.

CLASS : 71B.

160836

Int. Class : F02f 3/00.

"A MULTI PART CUTTING EDGE DEVICE FOR AN EARTH MOVING UNIT".

Applicant : ESSCO CORPORATION, a corporation organised under the laws of the State of Oregon, U.S.A., of 2141 N. W. 25th Avenue, Portland, Oregon 97210, U.S.A.

Inventors : FREDERICK CHARLES HAHN & ARREN FRANK JONES.

Application for patent no. 200/Del 84 filed on 5th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-5.

7 Claims

A multi part cutting edge device for an earth moving unit comprising a plurality of adapter parts secured to said earth moving unit in side-by-side relation and projecting forwardly therefrom

a cutting edge part removably mounted on each adapter part by rewarded movement relative thereto and projecting forwardly to provide side-by-side cutting-edge-parts

each of said parts being generally plate-like and having forwardly-extending side edges, each side edge having a forwardly-extending groove therein to cooperate with the groove of the adjacent part to form a forwardly extending, elongated, generally tubular recess,

an elongated pin in each recess extending forwardly to span both a pair of a dapter parts and their associated cutting edge parts to stabilize the same

each adapter part and the cutting-edge-part mounted thereon being equipped with alignable openings for the receipt of a lock, and

a lock extending through said openings when aligned and rigidly coupling said parts together against forward disassembling movement of said cutting-edge-part, said lock including resilient means for lock removal by the application of a force transverse to the direction of said rearward movement.

Complete specification 14 pages.

Drg. 3 sheets

CLASS : 9F & 206E.

160837

Int. Class : H01 15/00, 7/00 & C23 c 17/00.

"IMPROVED PROCESS AND APPARATUS FOR MAKING AMORPHOUS SEMICONDUCTOR ALLOYS IN LAYERED FORM".

Applicant : ENLRY CONVERSION EVICES, INC., a corporation of Delaware, U.S.A., of 1675 West Maple Road, Troy, Michigan 48084, U.S.A.

Inventor : OVSHINSKY, STANFORD ROBERT, HUDGENS STEPHEN JENKINS & KASTNER MARC AARON.

Application for Patent No. 723/Del/83 filed on 29th October, 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

An improved process for making amorphous semiconductor alloys in layered form which comprises continuously feeding over a substrate (of the kind such as herein defined) at least two reaction gases such as herein described each of said gases containing at least one such as herein described to be deposited on to said substrate characterised by directing at least one source of microwave energy on to said reaction gases to form a moving plasma over said substrate through the reaction of said microwave energy with said gases, whereby contact of said continuously fed reaction gases with said plasma causes each of said gases to be selectively excited and to deposit sequentially their respective allowing elements on to said substrate to provide the desired amorphous semiconductor alloy in layered form.

Complete specification 26 pages.

Drawing 2 sheet

CLASS : 104J.

160838

Int. Class : C08f 45/00, C08g 51/00.

"PROCESS FOR THE PREPARATION OF A PARTICULATE MINERAL FILLER".

Applicant : BLUE CIRCLE INDUSTRIES PLC., A BRITISH COMPANY, OF PORTLAND HOUSE, STAGE PLACE, LONDON SW1E 5BJ, ENGLAND, MANUFACTURERS.

Inventor : GERSON MARIO FRANCIS VAS AND LESLIE EDWARD SHIEL.

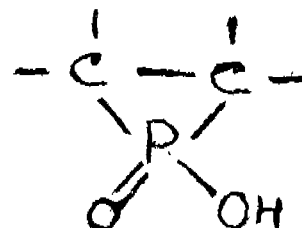
Application for Patent No. 764/DEL/1983 filed on 15th November, 1983.

Convention application No. 8233574 dated 24th November, 1982 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

15 Claims

A process for the preparation of a particulate mineral filler coated with an unsaturated organic polymer that contains phosphinic acid groups, which, in the free acid form, may be represented by the formula 1



of the drawings which process comprises the steps of (a) reacting an organic polymer having unsaturated bonds with a phosphorus trihalide to introduce phosphorus-containing groups into the polymer, and thereafter (b) subjecting the said phosphorus-containing groups to hydrolysis to form the phosphonic acid groups and (c) applying the polymer to the surface of mineral filler articles.

Complete specification 23 pages.

Dr. 1 sheet

CLASS : 32F₃ (c).

160839

Int. Class : C07c 29/18.

"A PROCESS FOR THE PRODUCTION OF METHANOL".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P, 3JF, ENGLAND.

Inventor : GLYN DAVID SHORT & JAMES ROBERT JENNINGS.

Application for Patent No. 799/Del/83 filed on 29th November, 1983.

Convention date December 13, 1982/8235434, (U.K.), August 4, 1983/8321118 (U.K.), December 13, 1982/8235445 (U.K.), August 4, 1983/8321120 (U.K. & December 13, 1982/8235418 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

8 claims

A process for the production of methanol comprising passing, at a temperature from 50°C. to 240°C a synthesis gas including carbon monoxide and hydrogen over the oxidised alloy product of at least (a) one or more metal selected from the group consisting of copper, ruthenium, rhodium, and palladium, and (b) at least one metal having a standard electrode potential of at least 0.8 volts negative with respect to the standard hydrogen electrode and recovering in any known manner the methanol so produced.

Complete specification 22 pages.

CLASS : 32 F₁ & 140 B₁

160840

Int. Class : C10m—3/00, C07f—7/00.

"A PROCESS FOR PREPARATION OF NOVEL DITHIOPHOSPHORUS ACID/AMINE SALT".

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION OF THE STATE OF OHIO, HAVING ITS PRINCIPAL PLACE OF BUSINESS AT 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO, 44092, U.S.A.

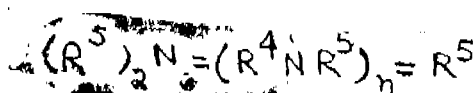
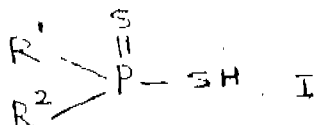
Inventor : JOHN WESLEY FORSBERG.

Application for Patent No. 24/Del/1984 filed on 6th January 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

10 Claims

A process for preparation of a novel dithiophosphorus acid/amine salt by reacting a dithiophosphorus acid compound of the formula I



IV

wherein R¹ and R² are individually selected from the group consisting of hydrocarbyl radicals containing from 1 to 30 carbon atoms and hydrocarbyloxy radicals containing from 1 to 30 carbon atoms, provided that when both R¹ and R² are hydrocarbyloxy radicals, at least one of said radicals is an aliphatic hydrocarbyloxy radical with an amino compound of the general formula IV wherein R¹ is a divalent hydrocarbon based radical containing from 1 to 18 carbon atoms, each of R² is individually selected from the group consisting of hydrogen atoms, hydrocarbyl radicals containing from 1 to 40 carbon atoms and hydroxy-substituted hydrocarbon radicals containing from 1 to 40 carbon atoms and n is an integer from 0 to 10 provided that when n is 0, at least one of said R⁵ is said hydrocarbyl or hydroxy-substituted hydrocarbyl radicals.

Complete specification 35 pages.

Dr. 1 sheet

CLASS : 32 F₃(b)

160841

Int. Class : C07c—61/00.

A PROCESS FOR THE PREPARATION OF 2,2-DIMETHYL-3-(n-PROPYL) CYCLOPROPANE ACETIC ACID.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

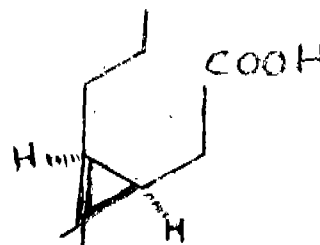
Inventors : RAJAT BARAN MITRA, BALAWANT NARAYAN JOSHI, MANDAKINI VISHWANATH NATEKAR, ARVIND ANANTRAO AND DILIP DIGAMBAR SHINDE.

Application for Patent No. 115/Del/1984 filed on 7th February, 1984.

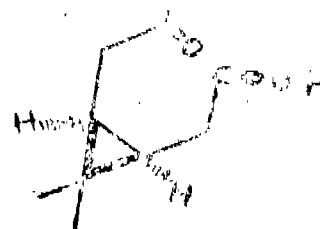
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

4 claims

An improved process for the preparation of 2, 2-dimethyl-3-(n-propyl) cyclopropane acetic acid of formula (III)



comprising refluxing 2, 2-dimethyl-3-(2-oxopropyl)-cyclopropane acetic acid of formula (I)



with alkali, alkaline glycol and hydrazine hydrate.

Compl. Specn. 5 pages.

Dr. 1 sheet.

CLASS : 32F 3 C.

160842

Int. Class : C 12 c 11/00.

"A PROCESS FOR THE PRODUCTION OF ETHANOL".

Applicant : INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAVAN, NEW DELHI-110001, INDIA; AN AUTONOMOUS BODY, REGISTERED UNDER THE SOCIETIES REGISTRATION ACT 1860.

Inventor : CHERUKAT BALAGOPALAN.

Application for Patent No. 123/Del/84 filed on 7th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

22 claims

A process for the production of ethanol comprising :

- (a) treating the cassava starch slurry with an acid such herein described having strength 0.05 N to 0.2 N,
- (b) saccharifying the starch as herein described,
- (c) subjecting the saccharified starch to fermentation in a known manner and thereafter
- (d) recovering the ethanol from the fermented broth.

Complete specification 18 pages.

CLASS : 206 E & 29D.

160843

Int. Class : G 06 F—3/02.

COMPUTER APPARATUS.

Applicant : MICROWRITER LIMITED, A BRITISH COMPANY, OF 51, BISHOPGATE, LONDON EC2N 3AS, ENGLAND.

Inventors : CYRIL ENDFIELD, CHRISTOPHER JOHN RAINEY, JOHN SOUTHGATE.

Application for Patent No. 149/Del/1984 filed on the 20th February, 1984. Convention date February 23, 1983 (8305011)/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

7 claims

Computer apparatus comprising :—

- a central computer having a data input port;

Video and/or audio display means connected to said central computer;

a plurality of remote chord keyboards, operation of each of which generates alpha-numeric and like character data and command instructions;

connecting means located between and connecting each said remote chord keyboard to said data input port;

connector means connected between said data input port and said central computer; and

means connected to said data input port to identify the character data and command instructions generated by each remote chord keyboard;

said central computer being programmed to process and combine data generated by independent operation of each of said keyboards in accordance with instructions generated by said keyboards and to output resultant information to said display means for display in common.

Compl. Specn. 18 pages.

Drgs. 5 sheets.

CLASS : 32F_a(.).

160844

Int. Class : C07c 41/00 & 43/00.

"PROCESS FOR THE CONVERSION OF TERTIARY ALKYL HALIDES INTO ETHERS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860), OF RAJI MARG, NEW DELHI-1, INDIA.

Inventors : SUBRAMANIAM ANANDARAMAN, KAMBADUR NAGARAJARAO GURUDUTT, COIMBATORE PANCHANADA NATARAJAN AND BHAGAVATULA RAVINDRANATH.

Application for Patent No. 378/Del/84 filed on 1st May, 1984. Ante-dated to 10th July, 1980 (abandoned).

Divisional to patent application No. 504/Del/80 filed on 10th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 claims

A process for the conversion of tertiary alkyl halides into the corresponding ethers such as herein described which comprises reacting a tertiary alkyl halide with zinc oxide in the presence of an alcohol.

Complete specification 4 pages.

CLASS : 6A & 127A.

160845

Int. Cl. : F16d-11/00, F01c-13/00 & F03c-1/00.

"COMPRESSOR".

Applicant : BENDIX LIMITED, a British Company, of Douglas Road, Kingswood, Bristol BS15 2NL, England.

Inventors : BRIAN PATRICK NEAL, MICHAEL CHRISTMAN AND MICHAEL JOHN WINFIELD.

Application for Patent No. 879/Del/1984 filed on 20th November 1984.

Convention date 29-11-1983/83 31867/(United Kingdom).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A compressor including a housing having a rotatable input shaft for connection to a prime mover, said shaft running in a first outer bearing in the housing and incorporating inwardly thereof an input part of a multi plate clutch embraced by a clutch output assembly of said clutch driveably located on a compressor shaft, said input part having an axial recess accommodating retaining means for a clutch output part on the compressor shaft and also inwardly of the retaining means on the compressor shaft a bearing about which the inner end of the input part is rotatable on the compressor shaft in a disengaged condition of said clutch.

Complete Specification 7 pages.

Drawing 1 sheet

CLASS : 92C.

160846

Int. Cl. : B02b 3/00.

"SCREEN AND ROTOR ASSEMBLY FOR GRAIN HUSKING DECORTICATING, POLISHING AND WHITENING MACHINES".

Applicant : FELIPE SALETE GARCÉS, a Mexican citizen, of AV. de Juarez 198, Col. Granjas San Antonio, Deleg. Iztapalapa, 09070 Mexico, D.F.

Inventor : FELIPE SALETE GARCÉS.

Application for patent No. 569/Del/84 filed on 11th July 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

16 Claims

A screen and rotor assembly for grain husking, decortiating, polishing and whitening machines comprising, in combination, screen holder means formed by an upper rim, a lower rim and a plurality of straight channels having an upper end attached to said upper rim and a lower end attached to said lower rim; abrading screen means supported by said screen holder means anteriorly thereof and comprising at least one screen member having a plurality of evenly distributed slots, an abrading member the side edges of said at least one screen member having flanges which are complementarily located within said straight channels of said screen holder means to contact the walls and bottom of said channels, said at least one abrading member having at least a portion thereof located within said channels for sandwiching said flanges of said at least one screen member between the bottom of said channels and the surfaces of said portion of the abrading member, a plurality of fasteners fixing the position of said at least one abrading member in said channels; and rotor means rotatably arranged concentrically inwardly of said screen holder means and said abrading screen means and comprising a body, two diametrically opposite axially directed grooves on the surface of said body, and two abrading inserts housed in said grooves, the thickness of said abrading inserts housed in said grooves, the thickness of said abrading inserts being sufficient to project outwardly of said grooves a predetermined distance, whereby rotation of said rotor means within said abrading screen means will produce carrying of the grain introduced therebetween and a high intensity abrading action between said abrading members of the abrading screen means and said abrading inserts of the rotor means, to fully husk and polish said grains.

(Complete specification 24 pages Drawing 5 sheets)

CLASS : 155-F

160847

Int. Cl. : G 11 b 23/00.

METHOD OF MAKING A MAGNETIC RECORDING MEDIUM WITH COVERING PROTECTING THE FACE OF THE MAGNETIZABLE COATING OF SAID MEDIUM.

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, AT 3M CENTER, SAINT PAUL, MINNESOTA 55144, U.S.A.

Inventors : 1. MARIO DOMINGUEZ-BURGUETTE, 2. GEORGE DELMAN FOSS.

Application No. 818/Cal/83 filed July 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

Method of making a magnetic recording medium with a covering protecting the face of the magnetizable coating of said medium, comprising the steps of

- (a) coating onto said face a first dilute solution of from 80 to 95 parts of a film-forming aromatic or heterocyclic polymerizable monomer having a plurality of polymerizable ethylenically unsaturated groups, and correspondingly from 20 to 5 parts by weight of vinyl aromatic monomer to provide an inner coating,
- (b) coating over the inner coating a second dilute solution of polymerizable monomer having a perfluoropolyether segment comprising a plurality of $-C_2F_4O-$ repeating units, where subscript a is independently in each such unit an integer from 1 to 4, to provide an outer coating,

(c) drying said coating and polymerizing said monomers, the thickness of the resultant composite covering not exceeding 200 nm.

Compl. Specn. 21 pages.

Drq. 1 sheet.

CLASS : 12-C.

160848

Int. Cl. C 21 d 1/46.

AN IMPROVED METHOD FOR HEAT TREATING STEEL IN AN INERT SALT BATH.

Applicant DEGUSSA AKTIENGESSELLSCHAFT OF POSTFACH 1345, RODENBACHER CHAUSSEE 4, D-6450 HANAU 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. FRIEDRICH-WILHELM EYESLL.

Application No. 951/Cal/83 filed July 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A method for heating treating steel which comprises subjecting steel to heating at "A" temperature as herein defined in an inert salt bath in a known manner, wherein said salt bath is an alkaline salt bath having chlorides of alkali and alkaline earth metals such as sodium, potassium and barium and wherein said salt bath additionally includes a regenerator selected from polymeric triazine compounds, polymeric hydrocyanuric acids, polymeric carbonic acid amides and/or polymeric trifluoric acids, said regenerator containing 0.01 to 2.0% by weight of carbon.

Compl. Specn. 7 pages.

Drq Nil.

CLASS : 32-A

160849

Int. Cl. C 09 b 45/00.

A PROCESS FOR PREPARING A MIXTURE OF 1 : 2-COBALT COMPLEX AND 1 : 2-CHROMIUM AZO DYESTUFFS.

Applicant : HOECHST AKTIENGESSELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

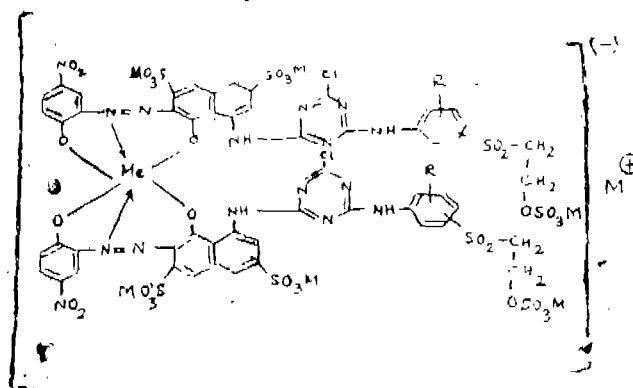
Inventor : ERNST HOYER.

Application No. 987/Cal/83 filed August 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for preparing mixture of 1 : 2 cobalt complex and 1 : 2-chromium complex azo dyestuffs of the formula (1) of the accompanying drawings



Formula 1

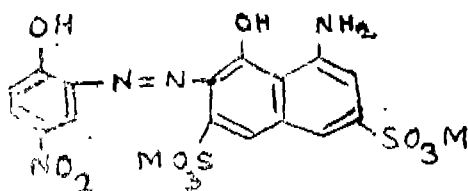
in which

Me is a cobalt atom or a chromium atom.

R represents a hydrogen atom, a methyl group or a methoxy group,

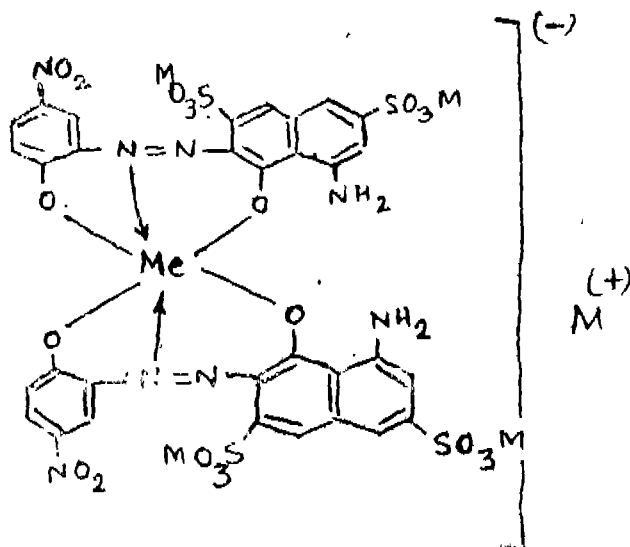
M denotes a hydrogen atom or an alkali metal atom or the equivalent of an alkaline earth metal atom, and the group of the formula $-\text{SO}_2-\text{CH}_2-\text{CH}_2-\text{OSO}_3\text{M}$ is bonded to the benzenenucleus in meta-or-para-position relative to the NH-group.

in a molar mixing ratio of 1:5 to 5:1, which comprises, in a one-vessel process and without intermediate isolation of the process intermediates, first of all diazotizing 4-nitro-2-aminophenol and coupling the diazotization product with 1-amino-8-hydroxynaphthalene-3, 6-disulfonic acid by a method known parse to give an azo compound of the formula (3)



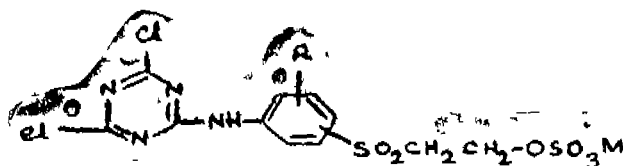
Formula 3

in which M has the abovementioned meaning, converting by a method known parse this azo compound without intermediate isolation by reaction with an equivalent amount of cobalt- and chromium-donating agents for which the molar ratio between cobalt and chromium is within the range from 5:1 to 1:5, into a mixture of 1:2-cobalt complex and 1:2-chromium complex azo compound of the formula (4)



Formula 4

in which Me and M have the abovementioned meanings, and then reacting this mixture by a method known parse of metal complex azo compounds of the formula (4) without intermediate isolation with a compound of the formula (5)



Formula 5

in which M and R have the abovementioned meanings, and the β -sulfatoethylsulfonyl group is bonded to the benzene nucleus in meta-or-para-position relative to the NH-group, to give a mixture of 1:2-cobalt complex and 1:2-chromium complex azo dyestuffs of the formula (1).

Compl. specn. 23 pages.

Drg 2 sheets

CLASS : 33-A

160850

Int. Cl. : B 22 d 11/04, 11-08.

METHOD FOR CASTING METAL CHARGES.

Applicant : METACON AG., OF OERLIKONERSTRASSE 88, 8057 ZÜRICH, SWITZERLAND.

Inventor : BERNHARD TINNES.

Application No. 1144/Cal/83 filed September 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8-Claims

Method for casting metal charges by means of a casting vessel delivery duct controlled by a slide gate nozzle, characterised in that the movable gate part of the slide gate nozzle is driven in oscillatory manner in its closed position during casting interruptions

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 128-F.

160851

Int. Cl. : A 61 j 3/00 + 7/00;

A 61 m 15/00.

DEVICE FOR ADMINISTERING MEDICAMENTS TO PATIENTS.

Applicant : GLAXO GROUP LIMITED, OF CLARGES HOUSE 6/12, CLARGES STREET, LONDON, W1Y 8DH, ENGLAND.

Inventors : 1. ROBERT EDWARD NEWELL, 2. ROBERT ALEXANDER FITZSIMMONS.

Application No. 1243/Cal/83 filed October 7, 1983

Convention dated 8th October, 1982 (82 28887) and 24th May, 1983 (83 14307) both are U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A device for administering medicaments to patients which comprises a housing with a chamber therein; an air inlet into the chamber; a support inside the chamber arranged to support, in use, a blister pack provided with a blister for medicament or a plurality of blisters arranged in a circle; a penetrating member operable, in use, to engage a blister registered therewith to open the blister in such a way that air being inhaled by a patient will cause the medicament to be released therefrom while the blister remains stationary means for rotatably indexing, in use, the blister pack to register the blister, or each of them in turn, with the penetrating member; and, communicating with the interior or the chamber, an outlet through which a patient can inhale whereby, in use, medicament will be released from a blister and entrained in the air-flow produced by the patient so as to pass through the outlet.

Compl. Specn. 15 pages.

Drg. 3 sheets.

CLASS : 123.

160852

Int. Cl. : C 05 g 1/00.

A PROCESS FOR PRODUCING A SLURRY SUITABLE FOR THE MANUFACTURE OF MIXED FERTILIZERS, CONTAINING NITROGEN PLUS PHOSPHORUS AND OPTIONALLY POTASSIUM FROM PHOSPHATE ROCK.

Applicant : KEMIRA OY, MALMINKATU 30, SF-00100 HELSINKI 10, FINLAND.

Inventors : 1. PERTTI VISA JUHANI VUORINEN, 2. EERO HEIKKI TAPANI SEUNA.

Application No. 1483/Cal/83 filed December 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for producing a slurry suitable for the manufacture of mixed fertilizers, containing nitrogen plus phosphorus and optionally potassium from phosphate rock, comprising dissolving phosphate rock with nitric acid in order to produce an acidic slurry and neutralizing the acidic slurry by ammonia under optional simultaneous cooling in two neutralization stages, and adding an ammonium phosphate to said acidic slurry in said two neutralization stages to satisfy the phosphorus requirement of the mixed fertilizer, wherein a share not exceeding 40%, by weight, of said ammonium phosphate is added to the first neutralization stage where the acidity of the slurry is maintained at a pH of 2 to 4, and the remaining ammonium phosphate being added to the second neutralization stage where the acidity of slurry is maintained at a pH of 5 to 6, said process further comprising one or several of the optional steps of adding ammonium phosphate in at least one of the neutralization stages, adding a potassium salt of predetermined quantity in the second neutralization stage, and adding ammonium nitrate of predetermined quantity in at least one of the neutralization stages.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 68-D.

160853.

Int. Cl. : C 10 k 1/00.

PROCESS OF AFTER BURNING AND PURIFYING PROCESS EXHAUST GASES.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. MARTIN HIRSCH, 2. WOLFRAM SCHNABEL, 3. HARALD SAUER, 4. HANS-WERNER SCHMIDT.

Application No. 1543/Cal/83 filed December 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A process of after burning process exhaust gases which contain combustible constituents, characterized in that the process exhaust gases and the oxygen-containing gases required for a combustion are separately supplied to a fluidized bed reactor as hereinbefore defined (1) of a circulating fluidized bed, in which a combustion and purification of the exhaust gases are effected at a gas velocity of 2 to 10 metres per second (empty pipe velocity) in the presence of solids which contain a gas-purifying agent which is essentially limestone and/or dolomite and have a particle size d_p 50 of 30 to 200 μ m and with an adjusted mean suspension density of 0.1 to 10 Kg/m^3 and at a temperature of 700 to 1100°C, a stoichiometric ration of 1.2 to 3.0 (calculated gas Ca : S) of gas purifying agent to pollutant contained in the exhaust gas from the process or formed by the combustion is adjusted and the solids entrained by the gases from the fluidized-bed reactor (1) recycled to the fluidized bed reactor (1) in such a manner that the quantity of solids circulated per hour in the circulating fluidized bed is at least 5 times the weight of solids contained in the fluidized bed reactor (1).

Compl. Specn. 18 pages.

Drg. 2 sheets.

.4—187 GI/87

CLASS : 206-L.

160854.

Int. Cl. : G 08 C 19/00.

DEVICE FOR TRANSMITTING SIGNALS BY RADIO AND COMMUNICATION CABLE BETWEEN A CENTRAL CONTROL AND RECORDING SYSTEM AND SEISMIC DATA ACQUISITION DEVICES POSITIONED ON THE FIELD FOR COLLECTING EACH DATA FROM GEOPHONES

Applicant : INSTITUT FRANÇAIS DU PETROLE, 4, AVENUE DE LOIS PREAU 92402 RUEIL MALMAISON, FRANCE.

Inventors : 1. JOSEPH RIALAN, 2. GERARD THIERRY.

Application No. 1568/Cal/83 filed December 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

Device for transmitting signals between a series of data acquisition devices (B_1, B_2, \dots, B_n), each of which is adjusted to collect signals originating from a seismic sensor or a set of seismic sensors, and a central control and recording system (1) which includes means for receiving and recording all of the seismic signals collected by the acquisition devices, each of said acquisition devices and said central control and recording system being equipped with means of mixed transmission of data by radio or by transmission cable; said transmission device comprising a transmission cable and a transmission relaying element (2, 11) which is equipped with a radio transmitter-receiver set and means connected to said radio transmitter-receiver set for transmitting and receiving signals on a transmission cable, with this transmission relaying relaying element being connected to at least one group comprising several data acquisition devices of said series or to the central control and recording system by means of said transmission cable (9, 10).

Compl. Specn. 9 pages.

Drg. 2 sheets.

CLASS : 154-F & G

160855

Int. Cl. : B 41 f 1/00, 1/16.

OFFSET PRINTING UNIT.

Applicant : SEIKEN INDUSTRIAL CO. LTD., OF 10-6 HAKATAEKIMINAMI 2-CHOME, KAKATA-KU, FUKUOKA-SHI, FUKUOKA-KEN, JAPAN.

Inventors : 1. YOSHIMASA MIYATA, 2. MIKIO TADA.

Application No. 6/Cal/84 filed January 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An offset printing unit comprising a conventional letter-press having two set of plate and impression cylinders and ink depositing rollers characterized in that a pair of additional impression cylinders provided with means to bring them in contact with said impression cylinders and in that means are provided for tripping or moving away said additional impression cylinders from said impression cylinders, as well as the ink depositing rollers.

Compl. Specn. 14 pages.

Drg. 5 sheets.

CLASS : 163-C.

160856.

Int. Cl. : F 16 k 31/00.

IMPROVEMENTS IN A LIFTING DEVICE FOR THE VALVE PLATES OF COMPRESSOR VALVES.

Applicant : HOFERBIGER VENTILWERKE AKTIENGESELLSCHAFT, OF 23 BRAUNHUBERGASSE, A-1110, VIENNA, AUSTRIA.

Inventor : 1. DIPL. ING. ERICH MACHU.

Ind. Cl. : 174 F [L II (4)]

160858.

Application No. 173/Cal/84 filed March 9, 1984.

Int. Cl. : F 16f—9/00.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

AN IMPROVED GAS CHARGING FIXTURE FOR PRESSURIZING SHOCK ABSORBERS AND THE LIKE.

13 claims

A lifting device for the valve plate of a compressor valve for regulating the fluid flowrate, comprising a gripper which is movably in the lifting direction and is acted upon in the opening direction of the valve plate by a regulating spring with tension variable by a setting device and which acts upon the valve plate by way of lifting prongs, characterized in that the gripper is divided into at least two gripper parts which are displaceable relative to one another in the lifting direction and between which at least one damping spring is interposed, and the relative displacement path of the two gripper parts is bounded by end stops between which the damper springs are pre-tensioned, the pre-tensioning force of the damper springs being as great as or greater than the regulating force of the regulating spring required for keeping the valve open.

Compl. Specn. 20 pages.

Drg. 4 sheets.

Ind. Cl. : 174 F [L II (4)]

160857.

Int. Cl. : F 16f — 9/00, + 5/00.

AN IMPROVED INNER CYLINDER HEAD FOR SHOCK ABSORBER ASSEMBLY AND A SHOCK ABSORBER ASSEMBLY COMPRISING THE SAME.

Applicants : MAREMONT CORPORATION, 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, U.S.A.

Inventors : MAHESH NANALAL SHAH AND PAUL SMELTZER.

Application No. 162/Bom/1984 filed June 1, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

5 Claims.

1. An improved inner cylinder head for shock absorber assembly adapted to be mounted on the head portion of the inner cylinder wall of the shock absorber assembly, the said inner cylinder head being provided with a central passage and clearance for passing there through a piston rod, the said head having a lower annular or disk portion which fits in the inner cylinder wall with a cylindrical circumferential surface, capillary grooves being provided circumferentially in the bottom surface of the said disk portion for the escape or entrapped air from within the inner cylinder, an outwardly extending circular flanged portion being provided atop the said disk portion a drain hole extending through the said flange portion for draining the shock absorber fluid, a piston rod seal portion being provided in the said flange portion and the said disk portion which defines the said passage and clearance of the piston rod, forming an internal cylindrical seal surface a plurality of recesses being provided in the said flange portion surrounding the said seal portion, the said said head being of a material having a thermal coefficient of expansion greater than the thermal coefficient of expansion of the material of the said inner cylinder wall so that it expands inwardly during the cylinder head temperature increases and contract outwardly during cylinder head temperature decreases, and thereby being adapted to vary the piston rod clearance depending upon temperature to compensate for reduced viscosity of fluid during temperature increases and substantially eliminate fading.

Complete Specification 12 pages.

Drgs. 1 sheet

Applicants : MAREMONT CORPORATION, 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventor : JOSEPH CUBALCHINI.

Application No. 164/Bom/1984 filed June 1, 1984. Patents Rules, 1972), Patent Office, Bombay Branch.

4 Claims

1. An improved gas charging fixtures for pressurizing a damper, the damper having an inner cylinder head, an outer cylinder and a piston rod wiper seal displaceable by pressurized gas entering along the inner cylinder head, the gas charging fixture comprising a pair of body members adapted to be forced together under pressure; guide means for angling said body members when said body members are forced together; means defining a cavity in said body members, the cavity being of a size for receiving the damper, the cavity communicating with the piston rod wiper seal such that pressurized gas entering the cavity deforms the rod wiper seal for movement of the gas into the damper; said cavity-defining-means including a compressible material disposed in the cavity for compressibly receiving the outer cylinder of the damper in the proximate area of the inner cylinder head seal, the compressible material being sized for compressing the outer cylinder of the damper when the body members are forced together, for deforming portions of the outer cylinder continuous to the inner cylinder head seal for enhancing the sealing action of the inner cylinder head seal, passageway means connecting said cavity externally of said body members; and means for connection of said passageway means to a high pressure source of gas.

Complete Specification 9 pages.

Drgs. 5 sheets.

Ind. Cl. : 69A.

160859.

Int. Cl. : H01H — 43/00.

RELAY DEVICE FOR THE AUTOMATIC RECLOSURE OF MINIATURE CIRCUIT BREAKERS.

Applicants : THE TATA HYDRO ELECTRIC POWER CO. LTD., THE ANDHRA VALLEY POWER SUPPLY CO. LIMITED AND THE TATA POWER COMPANY LIMITED OF BOMBAY HOUSE, 24, HOMI MODI STREET, BOMBAY-400023, MAHARASHTRA, INDIA.

Inventors : (1) KRISHNAKUMAR RAMAKRISHNA PANDIT, (2) ASHVIN VINAY KANT TREASURER AND (3) SUBRAMANIAM VENKATRAMANI.

Application No. 200/Bom/1984 filed on 13th July, 1984. Complete after prov. left on 11th Oct. 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Bombay Branch.

7 Claims.

A relay device for the automatic reclosure of miniature circuit breakers which comprises input latch means connected to the external contacts of said circuit breakers and adapted to be activated when said circuit breaker trips, timer-counter circuit means connected to said input latch means and adapted to be activated thereby, said timer-counter circuit means being set to predetermined time intervals, the output from said input latch means being fed at said predetermined time intervals from said timer-counter circuit means to a differentiator pulsing circuit adapted to produce switching pulse at a predetermined rate, said pulses being fed via an AND gate to relay drive means connected in turn to the output contacts of said relay device, said pulses being fed from said output contacts back to the external contacts of said circuit breaker in order to close said circuit breaker.

Prov. Specn. 6 pages.

Com. Specn. 10 pages.

Drg. Nil.

Drg. 1 sheet.

CI : 98 I.

160860

Int. CLASS : F 24 j 3/02.

SOLAR ENERGY DISC TYPE CONCENTRATING COLLECTOR.

Applicant : NARENDRA SHETH INDIAN NATIONAL, OF NAWAZ COURT, 3rd FLOOR, 128-C/F.

Inventor : AUGUST KRANTI MARG, BOMBAY-400 036, MAHARASHTRA, INDIA.

Application No. 213/BOM/84 Filed on AUG 1, 1984.

Complete after provisional left on OCT, 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office, Bombay Branch.

5 Claims

A solar energy disc type concentrating collector comprising substantially circular concentric ring type elements supported on a plurality of shaped supports having grooves therein for supporting the concentric ring, each of said concentric ring being adapted to co-act with each other ring to focus solar energy radiation thereupon at a focal point or hot box; said support means extending radially from a central point and said concentric ring being rigidly held at the grooves in the shaped supports to substantially curve the concentric ring between the said supports, said set of plurality of concentric rings forming a concentrating focussing element to focus the solar energy radiant thereupon at a hot box.

Provisional Specification 4 pages, Drawings Nil. Complete specification 6 pages, Drawing 2 sheets.

CLASS : 62 A_s, 170B.

160861

Int. CLASS : C 11 d—3/00.

ALKALINE BUILT DETERGENT BLEACH COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : JOHN DAKES.

Application No. : 336/BOM/1984 Filed on 4th December, 1984. U.K. Convention priority date 6th December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay-13.

6 Claims

An alkaline built detergent bleach composition comprising : from 5 to 50% by weight of a peroxide compound and a manganese compound in an amount equivalent to 0.002 to 2.5% by weight of manganese (II) characterized in that it contains :

(a) from 5 to 80% by weight of main detergency consisting of :

- (i) a mixture of a water-soluble, non-phosphorus organic sequestering builder such as herein described and an alkaline buffer, selected from the group consisting of alkali metal orthophosphates, alkali metal silicates and alkali metal borates and mixtures thereof, in a weight ratio of organic sequestering builder to alkaline buffer of from 10:1 to 1:60 or
- (ii) a mixture of an alkali metal triphosphate and an alkali metal pyrophosphate, the latter being present in more than 20% by weight of the

former but not more than 15% by weight of the total composition.

(b) optionally from 2 to 50% by weight of a surface active agent, said composition having a pH under use conditions of 9.5 to 12.0.

Complete Specification 21 Pages, Drawings—Nil.

CLASS : 62 A₂ + 170 B + D.

160862

Int. CLASS : C 11d 3/08.

Title : ALKALINE BUILT DETERGENT BLEACH COMPOSITIONS.

Applicant : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF INDIA, OF HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : JOHN DAKES.

Application No. : 337/Bom/84 filed on : Dec. 4, 1984. U.K. Convention priority date : Dec, 6, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent office Bombay Branch.

3 Claims

An alkaline built detergent bleach composition comprising from 5 to 50% by weight of a peroxide compound bleach and a manganese compound in an amount equivalent to 0.002 to 1.5% by weight of manganese (II) characterized in that it contains from 2 to 60% by weight of sodium sesquissilicate or sodium metasilicate and optionally from 1 to 50% by weight of a surface-active agent, the composition having a pH under use conditions of 9.5 to 13.

Complete specification 15 pages Drawing—Nil.

CLASS : 146 B

160863.

Int. CLASS : A 47b—27/06, A 47b—97/04.

A STAND FOR COUNTERBALANCING A LOAD PARTICULARLY FOR USE IN A DRAFTING MACHINE AND A DRAFTING MACHINE HAVING THE SAME.

Applicant : THE RAJA BAHADUR MOTILAL POONA MILLS LTD., OF 5, R. B. MOTILAL ROAD, POONA—411 001, MAHARASHTRA, INDIA.

Inventor : (1) BRIJ MOHAN TAYAL.

(2) DWINJENDRA LAL MUKHERJEE.

Application No. : 91/BOM/85. FILED ON : APR, 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Bombay Branch.

9 Claims

A stand for counterbalancing a load particularly for use in a drafting machine, said stand comprising a vertically disposed frame; a pair of legs spaced apart and vertically slidably supported in said frame, said legs being interconnected by a cross rod rigidly provided at the lower ends thereof, said load being rigidly supportable at and across the upper ends of said legs; at least one tension spring vertically disposed in said frame, one end of said spring being rigidly supported at the lower end of said frame; a shaft rotatably supported in said frame at the upper end thereof; a pulley rigidly supported on said shaft; a first wire rope one end of which is fixed on said pulley and the other end of which is fixed on said cross rod; a cam spaced apart from said pulley and rigidly supported on said shaft; a second wire rope one end of which is fixed on said cam and the other end of which is connected to the other end of said spring through spring tension adjustment means, said first wire rope and said second

wire rope being so fixed on said pulley and cam respectively that said first wire rope and second wire rope on and unwind from said pulley and cam respectively in opposite directions; and a stopper supported in said frame to limit the upward sliding movement of said legs.

Complete specification : 14 pages Drawings : 8 s' etc.

CLASS : 40C-32E

160864

Int. CLASS : CO8f—1/13, 15/00.

IMPROVEMENTS IN OR RELATING TO THE PREPARATION OF ACRYLIC EMULSIONS FOR SURFACE COATING.

Applicant : INDIAN PETROCHEMICALS CORPORATION LIMITED, P.O. PETROCHEMICALS, DISTRICT BARODA-391346, GUJARAT, INDIA.

Inventor : (1) SUHAS CHANDRA GUHANIYOGI.
(2) SHASHIKANT.
(3) YOGINDER NATH SHARMA

Application No : 136/BOM/1985 FILED MAY 21, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Bombay Branch.

18 Claims

A process for the preparation of acrylic emulsions for surface coatings which comprises graft polymerising acrylic acid in the presence of one or more free radical initiators on to atactic polypropylene, emulsifying the graft polymer so produced in water with addition thereto of one or more acrylic ester monomers and subjecting the resulting emulsion to graft co-polymerisation

(Comp. Specn. 15 pages, Drgs NIL)

CLASS : 32F.b

160865

Int. CLASS : CO7C—55/06.

AN IMPROVED PROCESS FOR PRODUCTION OF OXALIC ACID FROM AGRICULTURAL WASTE TRASH.

Applicants : (1) MISS JYOTI DATTATRAYA MANE, (2) DR. SADASHIV JOTIRAM JADHAV AND (3) DR. MANDURI ACHUTA RAMAIAH ALL BEING INDIAN CITIZENS AND ALL OF C/o. DECCAN SUGA INSTITUTE, MANJARI (BK), 412 307, TALUKAR HAVELI, DIST. PUNE, MAHARASHTRA, INDIA.

Application No. : 248/BOM/1985 FILED SEPT. 13, 1985. COMP AFTER PROV. LEFT AUG. 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, Bombay.

7 Claims

An improved process for production of oxalic acid using agricultural waste trash of the type herein stated as raw materials comprises of the steps of

- converting agricultural waste trash into finely ground powdered mass in known manner;
- adding vanadium pentoxide or ammonium vanadate to finely ground powdered mass of step (a);
- adding slowly concentrated nitric acid to the powdered mass of step (b) while stirring is continued;
- adding sulphuric acid to the reaction mixture of step (c), within one hour;
- holding the reaction mixture of step (d) at temperature of 65dg.-75dg C, for four to six hours;

(f) allowing the reaction mixture of step (e) to cool down to room or ambient temperature and then filtering it through mesh filter in known manner to remove unreacted materials therefrom;

(g) further cooling the filtrate of step (f) to 4dg C whereby crystals of oxalic acid precipitate in the filtrate, and finally isolating the oxalic acid crystals from the filtrate by filtration

Comp. Specn. 9 pages, Drgs. Nil

Prov. Specn. 5 pages, Drgs Nil

CLASS : 130 I.

160866

Int. Cl. H 01 m 33/00.

METHOD OF PROCESSING SMALL BATTERIES TO RECOVER NON-FERROUS METALS THEREFROM.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. WALTER KOCH, 2. WOLFGANG TURKE, 3. HARTMUT PIETSCH.

Application No. 192/Cal/84 filed 16th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of processing small batteries to recover at least a large part of non-ferrous metals contained therein characterized in that the batteries are mechanically crushed to break open at least their housing, the crushed batteries are mixed with a solid leaching material having a low chemical activity and with chloride-containing solids, the resulting mixture is subjected to a chlorinating roasting treatment at temperatures of 580° to 700°C, the exhaust gas produced by the chlorinating roasting treatment is scrubbed to remove mercury, hydrochloric acid and possibly SO₂, the solid residue left after the chlorinating roasting treatment is leached with a dilute aqueous solution of hydrochloric acid, the (pregnant) solution is separated from the insoluble residue, copper and noble metals are precipitated out of the separated solution by an addition of metallic zinc, and the zinc-containing solution is processed further

Compl. Specn. 8 pages.

Drg. Nil.

CLASS : 49B.

160867

Int. Cl. : A 47 g 1/00.

AN INDOOR SOLAR COOKING DEVICE.

Applicant & Inventor : RAMNARAYAN CHAKRABORTY, 30 OFFICE LANE, AGARTALA-799001, TRIPURA, INDIA.

Application No. 369/Cal/84 filed 29th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An indoor solar cooking device comprising in combination three components namely, a water reservoir or tank, a cooker and a heat collector wherein, the said heat collector is made of a continuous zig-zag or U-shaped metal tube placed horizontally on a metal base of rectangular frame and coated with non-reflectable black paint and also wherein, the bottom of the water reservoir is connected by a pipe to inlet of the said zig-zig or U-shaped tube, the outlet of the zig-zig tube is connected to the bottom of the cooker by a second pipe and the top side wall of the cooker is connected to the top side wall of the water reservoir by a third pipe.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 32 E.

160868

Int. Cl. C 08 g 22/00.

A METHOD OR PREPARING PLASTICS MATERIAL OF HIGH OPTICAL QUALITY AND CAPABLE OF ABSORPTION OF ENERGY.

Applicant : SAINT-GOBAIN VITRAGE, LES MIROIRS, 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventor : 1. JEAN LOUIS BRAVET, 2. DANIEL COIMIN, 3. GERARD DAVDE, 4. NICHEL-JEAN MONCHEAUX.

Application No. 495/Cal/84 filed 10th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A method for preparing plastics material of high optical quality and capable of absorption of energy, the method comprising :

preparing a liquid mixture of a reaction mixture of an isocyanate component having a viscosity less than 5000 centipoises at -40°C and a polyol component, the isocyanate component comprising at least one aliphatic or cycloaliphatic di-isocyanate or an isocyanate prepolymer, the polyol component comprising at least one long difunctional polyol of molecular weight from 500 to 4000 and at least one short diol such as hereinbefore described as chain lengthening agent,

said liquid mixture being in the monomer or prepolymer state;

heating the liquid mixture on a horizontal support so as to polymerize the mixture and provide the plastic material.

Compl. Specn 28 pages.

Drugs. Nil.

CLASS 145 E₁

160869

Int. Cl. : D 21 c 11/00.

BATCH DIGESTER MULTI-STAGE PULPING PROCESS.

Applicant : BELOIT CORPORATION, OF P.O. BOX-350, BFLOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : RALPH SMYTHE GRANT.

Application No. 561/Cal/84 filed 10th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A batch type wood chip cooking process comprising the steps of

- introducing wood chips into a digester,
- soaking the chips in said digester with a warm black liquor having a temperature substantially below that required for cooking to remove air.
- displacing the warm black liquor from the digester with a preheated cooking liquor,
- raising the temperature of the cooking liquor in the digester to the cooking temperature.
- after the chips have attained a predetermined degree of cooking, displacing the liquor in said digester with a liquid filtrate derived from pulp washing and recovering part of the heat of the replaced hot black liquor having a temperature near cooking temperature by heat exchange with the white liquor used as cooking liquor, and

— emptying the contents of said digester by applying gas pressure to the interior of said digester,

characterized in that

the cooking of the chips in the digester is performed in a series of cooks C_1, C_2, \dots, C_n using liquors L_1, L_2, \dots, L_n

as cooking liquors for the respective cooks, wherein

- said liquors L_1, L_2, \dots, L_n are each mixtures of hot white liquor and a hot black liquor, and
- the first cook C_1 is carried out with a liquor L_1 having a relatively high proportionate amount of the total white liquor required for completing the desired cooking and for a relatively long cooking time T_1 ,
- the second cook C_2 is carried out with a liquor L_2 having a proportionate amount of the white liquor less than L_1 and for a time T_2 being shorter than T_1 , and
- the succeeding cooks through cook C_n are carried out at successively lower proportionate amounts of the white liquor and successively shorter times.

Compl. Specn. 19 pages.

Dng. 1 sheet.

CLASS : 69 A.

160870

Int. Cl. : H 01 h 77/00.

ELECTRIC CIRCUIT BREAKERS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222.

Inventor : 1. ROBERT HARBNSON FLICK, 2. WALTER KEVIN HUFFMAN.

Application for Patent No. 812/Cal/84 filed 27th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An electric circuit breaker comprising at least one pair of cooperating contacts, operating means for closing and opening the contacts, said operating means including an over-center toggle mechanism with a toggle linkage operatively connected to one contact of said or each pair, and trip means cooperating with the operating means to effect collapse of the toggle linkage, and thereby separation of the contacts, in response to predetermined abnormal circuit conditions, characterized in that said toggle linkage (102, 104, 106) includes a toggle link (102) which has associated therewith a stop (156) and has a configuration (162) such as to impinge upon said stop during initial collapse of the toggle linkage and in a manner accelerating said collapse.

Compl. Specn. 34 pages.

Drugs. 11 sheets.

CLASS : 69 I.

160871

Int. Cl. : H 01 h 73/00.

SOLENOID-ACTIVATED OPERATING DEVICES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. KURT ALBERT GRUNERT, 2. WALTER KEVIN HUFFMAN.

Application No. 892/Cal/84 filed 29th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A solenoid-actuated operating device for apparatus having an operating member movable between two operating positions thereof characterized in that the operation device

(410) comprises a reciprocable member (486) adapted to be engaged with said operating member (42) and movable in opposite directions so as to move the operating member to the respective operating positions thereof, a solenoid (414) comprising an electromagnet (415) and an armature (420) each arranged so as to be magnetically attracted for movement toward the other upon energization of the solenoid, a first movable structure (415, 422) comprising said electromagnet (415) together with means (422) cooperating, upon movement of the electromagnet toward the armature, with the reciprocable member (486) to move the latter in one of the said opposite directions to a first position thereof corresponding to one of the operating positions of the operating member (42), a second movable structure (420, 424) cooperating, upon movement of the armature to move the latter in the opposite direction to a second position thereof corresponding to the other operating position of said operating member, and bistable latching means (520, 522) actuated, upon movement of the reciprocable member (486) to said first position, to a first latching position for preventing subsequent movement of said first movable structure (415, 422) while enabling subsequent movement of the second movable structure (420, 424) and actuated, upon movement of the reciprocable member (486) to said second position, to a second latching position for preventing subsequent movement of said second movable structure (420, 424) while enabling subsequent movement of the first movable structure (424, 422).

Compl. Specn. 37 pages.

Drgs. 10 sheets.

CLASS : 116 C.

160872

Int. Cl. : B 65 g 15/00

ENDLESS BELT ASSEMBLY.

Applicant : SATAKE ENGINEERING CO., LTD., OF 19-10, UENO-1-CHOME, TAITO-KU, TOKYO, JAPAN.

Inventor : TOSHIHIKO SATAKE.

Application for Patent No. 113/Cal/85 filed 15th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

An endless belt assembly for use in a belt type delivery apparatus, comprising :

belt means having opposite end portions;

mounting means fixed to one of the opposite end portions of said belt means;

roller means having a circumferential surface high in coefficient of friction, said roller means being rotatably mounted on said mounting means so as to have a rotary axis extending substantially in parallel to a surface of said one end portion of said belt means and substantially perpendicularly to a longitudinal axis of said belt means;

mating means mounted on said mounting means in spaced relation to the circumferential surface of said roller means or defining a gap, extending substantially in parallel to said rotary axis of said roller means, between the circumferential surface of said roller means and said mating means;

drive means for drivingly rotating said roller means to cause the circumferential surface of said roller means to be into frictional engagement with a surface of the other end portion of said belt means received in said gap, for forcibly moving said the other end portion of said belt means through said gap while pressing said the other end portion against said mating means until a tension applied to said belt means reaches a desired value; and

locking means for locking said roller means against the rotation thereof to maintain said the other end portion of said belt means clamped between said roller means and said mating means, to thereby connect said one end portion and said the other end portion of said belt means to each other to form said belt means into an endless loop.

Compl. Specn. 40 pages.

Drgs. 10 sheets.

CLASS : 32-F₂ b; 55-E₄; 60-X₂a.

160873

Int. Cl. : C 07 d 99/24.

"PROCESES FOR THE PREPARATION OF NEW 1-OXA-1-DETHIACEPHALOSPORIN DERIVATIVES".

Applicants : MEIJI SEIKA KAISHA, LTD., 4-16, KYO-BASHI 2-CHOME, CHUO-KU, TOKYO, JAPAN; and MERCK & CO. INC., 126 EAST LINCOLN AVENUE, RATHWAY, NEW JERSEY, U.S.A.

Inventors : 1. SEIJI SHIBAHARA

2. TSUNEO OKONOGI,

3. YASUSHI MURAI,

4. SHUNZO FUKATSU,

5. TARO NIIDA,

6. TADASHI WAKAZAWA.

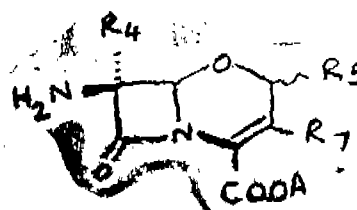
Application No. 569/Cal/85 filed August 2, 1985.

Division of Application No. 911/Cal/83 dated 22nd July, 1983.

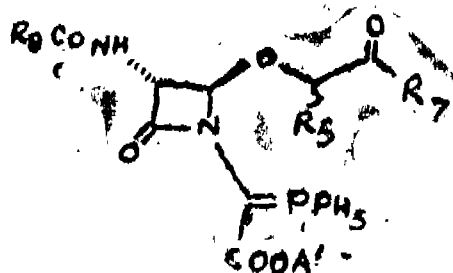
Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for the preparation of 76-amino-2-alkyl-1-oxo-1-dethiacephalosporin compound of the general formula (III) of the accompanying drawings

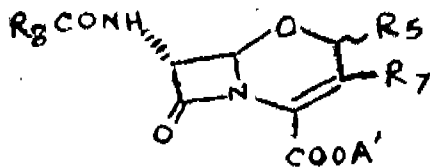


wherein R₄ represents a hydrogen atom or a methoxy group, R₅ represents a lower alkyl group, R₇ represents a methyl or halomethyl group or a group of the formula -CH₂-S-Het in which Het stands for an unsubstituted or substituted heterocyclic group, and A represents a hydrogen atom or a carboxyl-protecting group, which comprises cyclizing an azetidinone compound of the formula (XIV)



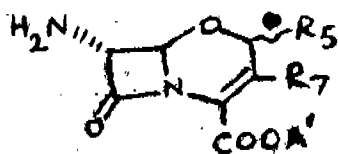
wherein the group R₉CO represents an acyl group, R₅ and R₇ are as defined above, ph represents a phenyl group

a A represents a carboxyl-protecting group, to produce a cephem compound of the formula (XV)



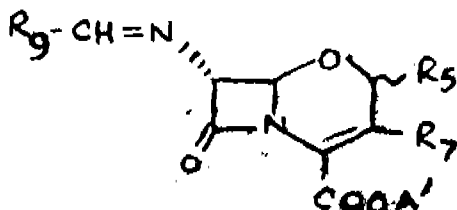
Formula (XIV)

wherein R_6 CO- R_5 , R_7 and A are as defined above; removing the group R_6 CO- from the 7 α -amino group of the compound (XV) in a known manner to produce a compound of the formula (XVI) in which R_5 , R_7 and A are as defined above; reacting the compound (XVI),



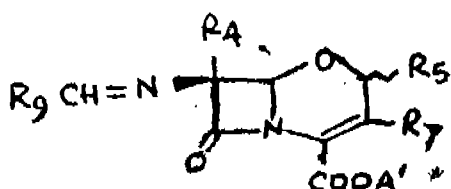
Formula (XVI)

with an aromatic aldehyde to produce a compound in the form of a Schiff base-type compound of the formula (XVIII)



Formula (XVIII)

wherein R_5 , R_7 and A are as defined above and R_9 represents an aromatic group; subjecting the Schiff base-modified 7 α -amino group of the compound to either a reaction for steric inversion accompanied by 6-methoxylation at the 7 position of the compound (XVIII), thereby producing a compound of the formula (XXI)



Formula (XXI)

wherein R_4 represents a hydrogen atom or a methoxy group and R_5 , R_7 and R and A are as defined above; cleaving the Schiff base moiety R_9 -CH=N from the compound (XXI) in a conventional manner; and removing, if necessary, the carboxyl-protecting group (A') from the resultant product compound.

Compl. Specn. 38 pages.

Drg. 11 sheets.

CLASS : 55F.

160874

Int. Cl. : C 12 k 1/00.

"APPARATUS FOR DETECTING MICRO-ORGANISMS".

Applicant : METAL BOX p.l.c., a British Company of Queens House, Forbury Road, Reading RG 1 3JH, England.

Inventor : MARTIN ROBERT ACKLAND.

Application for Patent No. 469/Mas/84 filed on 28th JUNE, 1984.

Convention Date on 29th June, 1983. No. 8317685. (U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office, Madras Branch.

11 Claims

Apparatus for detecting micro-organisms in any one of a plurality of samples of a substance, comprising a plurality of containers for samples and container-mounting member with means for receiving and locating each of the containers, characterised in that each container includes a first electrode of a noble metal as hereinbefore defined and a second electrode of a different metal as hereinbefore defined, insulated from the first electrode, the electrodes being arranged so as to be contactable with a sample in the container, and presenting respective contact surfaces externally of the container, and further the container-mounting member is provided with a first set of contact adapted to engage the external contact surfaces of the containers which correspond with the noble metal electrodes and with a separate lead from each of the said first set of contacts for connecting the noble metal electrodes to separate terminals of a multiplexing recorder system, and a second set of contacts adapted to make contact with the external contact surfaces of the containers which correspond with the second electrodes, all said second set of contacts being connected to a common lead for connecting said second electrodes to a common terminal of the multiplexing recorder system.

Compl. Specn 13 pages.

Drg. 2 sheets.

CLASS : 198 B.

160875

Int. Cl. : B 03 b 3/00.

"DENSIMETRIC SEPARATING APPARATUS".

Applicant : FIVES-CAIL PABCOCK, OF 7 RUE MON-TALIVET 75383 PARIS CEDEX 08, FRANCE, A FRENCH COMPANY.

Inventor JACQUES POUSSARD IN.

Application No. 502/MAS/84 filed July 11, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

Densimetric separating apparatus comprising a tank containing a dense liquid, on the side of which a wheel is provided, arranged at a slant, the said wheel being fitted with raising blades for the products which sink, whereas the products which float are drawn off the surface of the liquid, characterised in that the wheel for the products which sink is rotated by a variable speed motor means, and in that means are provided for varying the speed of the wheel in dependence on its load.

Compl. Specn 7pages.

Drg. 1 sheet.

CLASS : 85 CH & Q.

160876

Int. Cl. : F 27b 1/20 & F 27d 3/00.

"A ROTARY FEEDER FOR USE WITH A VERTICAL SHAFT KILN".

Applicant : NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS, M-10, South Extension, Part-II, Ring Road, New Delhi-110049 (A body under the Government of India devoted to Research, Technology Development and Transfer Education and Industrial Research).

Inventor : VINAY KUMAR JAIN.

Application for patent no. 312/Del/84 filed on 9th April, 1984.

Complete specification left on 8th July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

3 Claims

A rotary feeder for a vertical shaft kiln comprising a feeder body or hopper of a substantially conical shape and extending downwardly into a discharge spout, a discharge tray or chute provided at the discharge end of said spout, actuating means for changing the angle of inclination of said discharge tray or chute with respect of said feeder body, characterized in that means are provided for causing movement of said discharge tray or chute along the vertical axis, said means comprising a tube fixed at one end to the discharge tray or chute through a hinged plate, and a fulcrumed lever engaging opposite end of said tube for raising or lowering of said tube.

Compl. Specn. 8 pages.

Drg. 1 sheet.

Provn. Specn. 7 pages.

CLASS : 144 E₁

160877

Int. Cl. : C09 d-5/00.

"A PROCESS FOR PREPARING MYROBOLAN BASED VARNISH".

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20 Kasturba Gandhi Marg, New Delhi-110 001, India, an Indian Company.

Inventors: RAMESH CHANDRA MISRA AND VIJAY KUMAR GANPATE.

Application for Patent No. 677/DEL/1981, filed on 19th October '81.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for preparing myrobolan based varnish which comprises in dissolving myrobolan powder in water, treating the same with a source of formaldehyde such as 37% formaldehyde in the presence of an acid catalyst such as HCl or H₂SO₄, followed by heating the mixture at a temperature of 100 to 140°C for 2 to 3 hours to obtain a water thinnable varnish, and modifying the obtained varnish by cooking the same with malinised oil in an amount of 10 to 20% by weight at a temperature of 130 to 150°C for about 2 hours and thereafter if desired incorporating upto 20% by weight of micronised mica powder to obtain water thinnable core-plate varnish.

Compl. Specn. 14 pages.

CLASS : 10 B F.

160878.

Int. Class : F42b—1/02, 3/08.

"A DEVICE FOR PROPELLING AT A HIGH SPEED ONE OR SEVERAL PROJECTILES".

Applicant : JEAN-PAUL CHARBONNIER a French National of 96, avenue Victor Hugo, 75116 Paris, France and SOCIETE PLOEMELOISE DE FINANCEMENT (S.A.R.L.) of Locmiquel ploemel, 56400 Auray, France, a French company.

Inventors : JEAN PAUL CHARBONNIER, JACQUES CHATEL DE BRANCION & OLIVIER DE LA ROCHE KERANDRAON.

Application for Patent No. 351/Del/1983 filed on 25th May, 1983.

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(17 Claims)

A device for propelling at a very high speed one or several projectiles characterised in that said device comprising a hollow explosive charge provided with at least one cavity open to the outside in the direction of propelling, said cavity having a zone filled with an intermediary medium such as herein described, said zone being defined by the obturating end of the projectile into said cavity.

(Complete specification 24 pages Drawing 3 sheets).

CLASS : 32 E.

160879.

Int. Class : C 08 g—45/00.

"PROCESS FOR THE PREPARATION OF POLYURETHANE."

Applicant (s) : THE B.F. GOODRICH COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, OF 277 PARK AVENUE, NEW YORK, NEW YORK-10017, UNITED STATES OF AMERICA.

Inventor (s) : EDMOND GEORGE KOLYCHECK and LAURA LYONS TOLLE.

Application for Patent No. 508/Del/1983 filed on 26 Jul 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(14 Claims)

A process for the preparation of polyurethane which comprises reacting (1) one or more hydroxyl-terminated macropolyols selected from the group consisting of polyesters, polyethers, polylactones, polycarbonates, polyepihalohydrins and polyhydrocarbon macropolyols, (2) unsaturated polyethers having an average of 1/2 to 18 double bonds per molecule, selected from the group consisting of polyethers having one terminal hydroxyl group and polyether glycols having pendant double bond groups, and (3) an organic diisocyanate, to obtain a reaction product A() with 1 to 25 weight parts of said reactor product (A) with 1 to 25 weight parts of one or both of an acrylate or alkacrylate terminated polyurethane, said acrylate or alkacrylate terminated polyurethane (B) being a polyurethane reaction product of a hydroxyl terminated polyester, polyether, polylactone, polyepihalohydrin, polycarbonate or polyhydrocarbon, an organic diisocyanate and a hydroxy acrylate or hydroxy alkacrylate and subjecting said mixture to electron beam radiation to produce said cured polyurethane.

(Complete Specifications 35 pages Drawings one sheet).

CLASS : 32 E.

160880.

Int. Class : C 08 f 3/00.

"PROCESS FOR THE PRODUCTION OF POLYMER OF UNSATURATED CARBOXYLIC ACID N-SUBSTITUTED AMIDES".

Applicant : CHEMISCHE FABRIK STOCKHAUSEN GMBH formerly known as CHEMISCHE FABRIK STOCKHAUSEN & CIE, a German Company of Bakerpfad 25, 4150 KREFELD, WEST GERMANY.

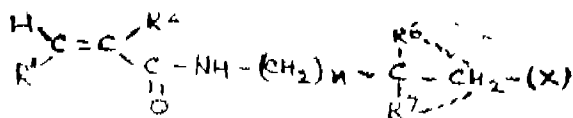
Inventor : ERICH KUSTER, BERNHARD GOOSSENS, KURT DAHMEN, EDUARD BARTHELL.

Application for Patent No. 569/DEL/83 filed on 19th August, 1983. Divisional application for Patent No. 45/DEL/80 dated 23-1-1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 Claims)

A process for the production of a polymer of an unsaturated carboxylic acid N-substituted amide as the formula 1.



(I-D)

wherein R¹ and R² each independently is hydrogen or methyl, R³ and R⁷ each independently is an alkyl radical having 1 to 4 carbon atoms, or aryl or together complete a cyclopentyl or cyclohexyl ring, n is 0 to 10, X is the radical of an amine of the formula -N(R') (R''), R' and R'' each independently is an alkyl radical having 3 to 8 carbon atoms, or an ammonium group of the formula XV, R' and R'' are as defined above and R' is hydrogen or an alkyl radical with 1 to 4 carbon atoms and A is a salt-forming anion comprising polymerising in any known manner the said compound of formula 1¹ wherein R¹, R², R³ and R⁷ are as defined above and optionally together with styrene, —methylstyrene, vinyl-pyridine, acrylonitrile, methacrylonitrile, acrylamide, methacrylamide, N-mono-substituted acrylamide or methacrylamide, N-di-substituted acrylic or methacrylic acid amide, acrylic acid esters, methacrylic acid esters, acrylic acid, methacrylic acid, vinyl esters, vinyl ethers, fumaric acid, maleic acid, divinyl-benzene, methylenebisacrylamide or allyl acrylate.

(Complete Specification 25 Pages Drawings 31 Sheets).

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Elpro International Limited to the grant of a Patent on application 157791 made by Hitch Limited as notified in the Gazette of India Part III Section 2, dated 3-1-87 the Patent application has been abandoned.

(2)

The Opposition entered by I.E.L. Limited, to the grant of a Patent on Application No. 158385 made by I.D.L. Chemicals Limited as notified in Part III Section 2 of the Gazette of India dated the 30th May, 1987, has been dismissed and a patent has been ordered to be sealed on the Application.

(3)

An opposition has been entered by M/s. Greaves Foseco Limited, to grant of a Patent on Application No. 158696 (923/Del/82) dated 17-12-82 made by M/s. Borden (UK) Limited.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by HARSCO CORPORATION under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155732 in their name has been allowed.

(2)

The claim made by HARSCO CORPORATION under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155745 in their name has been allowed.

PATENTS SEALED

157565 157763 157783 157786 157792 157820 157969
157973 157975 157976 157980 157982 157988 157993
157994 157996 157997 157999 158001 158003 158005
158010 158022 158027 158028 158030 158031 158032
158051 158052 158054 158055 158056 158057 158058
158059 158061 158062 158063 158064 158065 158143
158149 158150.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Fried Krupp Gesellschaft mit Beschränkter Haftung, D-4300 Essen 1, Altendorfer Strasse 103, Federal Republic of Germany a company organised under the Laws of the Federal Republic of Germany have made an application under Section 57 of the Patents Act, 1970 for amendment of Specification of their application for "a vertical conveyor for use as transport device for transporting bulk material". The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 234, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

RENEWAL FEES PAID

139744	139870	140054	140560	140572	140793	140930
141767	142050	152236	142518	142549	142679	142733
142852	143065	143556	143764	144006	144143	144146
144645	144742	145014	145299	145346	145347	145440
145477	145703	145774	145863	145997	146008	146049
146315	146467	146480	146578	146705	146789	146936
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147818	147835	147865	147905	148002	148030	148031
148044	148129	148148	148171	148225	148271	148272
148322	148388	148505	148507	148509	148519	148556
148845	149156	149167	149452	149506	149818	149830
150149	150671	150843	151107	151389	151620	151653
151698	151974	152059	152128	152129	152130	152131
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153459	153555	153595	153757	153758	153900	154044
154051	154082	154170	154175	154283	158284	154291
154308	154309	154311	154325	154332	154339	154340
154343	154350	154376	154378	154381	154383	154384
154385	154388	154391	154399	154496	154501	154503
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156216	156222	156249	156276	156323	156367	156385
156395	156457	156497	156534	156536	156539	156643
156657	156764	156798	156817	156837	156838	156846
156889	156924	157006	157007	157008	157011	157012
157059	157060	157061	157064	157074	157075	157076
157077	157078	157086	157093	157104	157105	157110
157112	157165	157248	157249	157250	157255	157260
157261	157262	167263	157264	157271	157390	157439
157440						

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 139857 dated the 31-5-75 made by Devendra Hiralal Vecumsee on 2-6-84 and notified in the Gazette of India, Part III, Section 2 dated the 24-11-84 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 151570 dated the 5-8-80 made by Madhusudan Hiralal Desai on 29-10-86 and notified in the Gazette of India, Part III, Section 2 dated the 7-2-87 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 154170 dated the 3-7-81 made by Michael John Pook on 13-10-86 and notified in the Gazette of India, Part III, Section 2 dated the 7-2-87 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 3. No. 157954. Jyoti Plastic Works, 94, Bombay Talkies Compound, Malad (West), Bombay-400064, Maharashtra, India, an Indian Sole Proprietary firm. "Container". 4th February, 1987.

Class 3. No. 157955. Jyoti Plastic Works, 94, Bombay Talkies Compound, Malad (West), Bombay-400064, Maharashtra, India, an Indian Sole Proprietary firm. "Container". 4th February, 1987.

Class 3. Nos. 157975, 157976, 157977, 157978, 157979. Fusion Polymers Private Limited, Incorporated in India, an Indian Company of 33 Hasanali Mansion, 29, Jijiboy Dadabhoi Lane, City of Bombay 400 001, State of Maharashtra, India, "Tank For Liquids". 6th February, 1987.

Class 3. No. 157987. Usha Industries, 4/301, Sonawala Estate, I.B. Patel Road, Goregaon (East), Bombay-400 063, State of Maharashtra, India. "Thermic Insulated Bottle". 10th February, 1987.

Class 3. No. 157988. Usha Industries, 4/301, Sonawala Estate, I.B. Patel Road, Goregaon (East), Bombay-400 063, State of Maharashtra, India, "Thermic Insulated Bottle". 10th February, 1987.

Class 3. No. 157989. Usha Industries, 4/301, Sonawala Estate, I.B. Patel Road, Goregaon (East), Bombay-400 063, State of Maharashtra, India,

"Thermic Insulated Casserole (Bowl)". 10th February, 1987.

Class 3. No. 158041. M/s. Om Apparels, 109-High Tech Industrial Centre, Caves Road, Jogeshwari East, Bombay-400 060, Maharashtra, India, an Indian Partnership firm. "Clothes Holding Clamp/Or Clip". 23rd February, 1987.

Class 4. No. 157884. Comptoir Nouveau De La Parfumerie Societe Anonyme, a French Company, of 23, rue Boissy d'Anglas, Paris (Seine), France. a "Flask". 16th January, 1987.

Class 14. No. 157990. Shiv Kumar Shyam Sunder Khanna 11-A, Manik Building, L.D. Rupareal Marg, Malabar Hill, Bombay-400 006, State of Maharashtra, India, Indian National of above address. "Textile Material Fabrics". 10th February, 1987.

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and Trade Marks